



| MYRRA<br>Part N° | CORE<br>SIZE | Max.<br>Output<br>Power | Outputs             |     |     |     |     |
|------------------|--------------|-------------------------|---------------------|-----|-----|-----|-----|
|                  |              | Watts                   | Vdc nominal voltage |     |     |     |     |
| <b>74000</b>     | E16          | 5w                      | 5v                  | 12v |     |     |     |
| <b>74001</b>     | E16          | 6w                      | 5v                  |     |     |     |     |
| <b>74002</b>     | E16          | 6w                      | 12v                 |     |     |     |     |
| <b>74003</b>     | E16          | 5w                      | 3.3v                | 5v  |     |     |     |
| <b>74010</b>     | E16          | 12w                     | 5v                  | 12v |     |     |     |
| <b>74014</b>     | E16          | 12w                     | 24v                 | 24v |     |     |     |
| <b>74015</b>     | E16          | 12w                     | 5v                  | 15v | 24v |     |     |
| <b>74020</b>     | EL19         | 18w                     | 5v                  | 12v |     |     |     |
| <b>74021</b>     | EL19         | 18w                     | 5v                  | 12v |     |     |     |
| <b>74023</b>     | EL19         | 16w                     | 3.3v                | 5v  | 12v | 18v | 30v |
| <b>74030</b>     | E25          | 30w                     | 5v                  | 12v | 12v |     |     |
| <b>74032</b>     | E25          | 35w                     | 24v                 |     |     |     |     |
| <b>74040</b>     | ETD29        | 60w                     | 5v                  | 12v | 5v  | 12v |     |
| <b>74043</b>     | ERL28        | 60w                     | 3.3v                | 5v  | 12v | 18v | 30v |
| <b>74050</b>     | ETD34        | 90w                     | 5v                  | 12v | 5v  | 12v |     |
| <b>74060</b>     | ETD39        | 140w                    | 5v                  | 12v | 5v  | 12v |     |
| <b>74070</b>     | ETD44        | 180w                    | 5v                  | 12v | 5v  | 12v |     |
| <b>74080</b>     | EF20         | 24w                     | 12v                 | 12v |     |     |     |
| <b>74081</b>     | EF20         | 20w                     | 3.3v                | 5v  | 12v |     |     |
| <b>74082</b>     | EF20         | 20w                     | 5v                  | 5v  |     |     |     |
| <b>74090</b>     | E16          | 1.5w                    | 5v                  |     |     |     |     |
| <b>74091</b>     | E16          | 1.5w                    | 12v                 |     |     |     |     |
| <b>74092</b>     | E16          | 3.1w                    | 5v                  |     |     |     |     |
| <b>74093</b>     | E16          | 3.1w                    | 12v                 |     |     |     |     |
| <b>74094</b>     | E16          | 9w                      | 5v                  |     |     |     |     |
| <b>74095</b>     | E16          | 9w                      | 12v                 |     |     |     |     |

Note : "5 volts" outputs can generally be used for 3.3 to 6volts; "12 volts" outputs can be used for 9 to 16volts.  
See detailed characteristics.

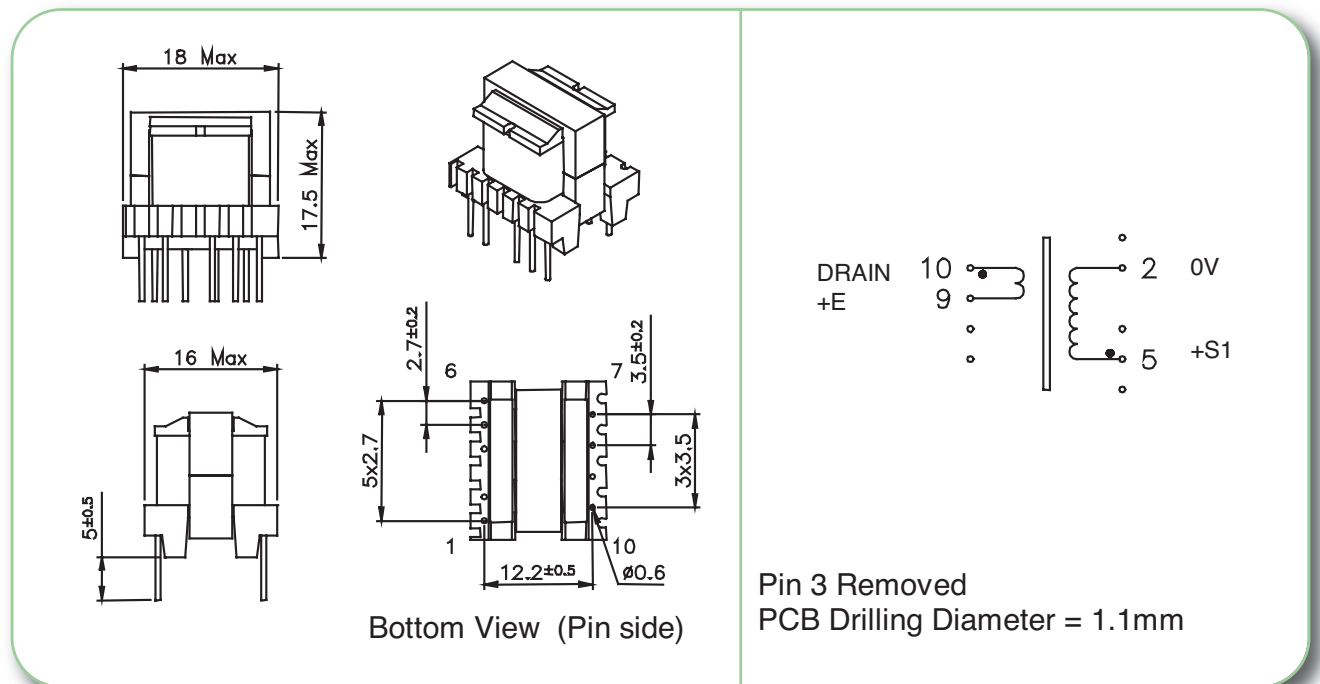


| Transformer Reference                              |                 | IC Manufacturer | Series & References         |
|----------------------------------------------------|-----------------|-----------------|-----------------------------|
| 74090<br>74091<br>74092<br>74093<br>74094<br>74095 | No aux. Winding | PI              | TNY Series<br>LNK XT Series |

|                                                                                                                                                                                                                               |                   |           |                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|-------------------------------------------------|
| 74000<br>74001<br>74002<br>74003<br>74004<br>74005<br>74010<br>74014<br>74015<br>74020<br>74021<br>74023<br>74080<br>74081<br>74082<br>74087<br>74088<br>74089<br>74030<br>74032<br>74040<br>74043<br>74050<br>74060<br>74070 | With aux. Winding | ONSEMI    | NCP 1014<br>NCP 3065<br>etc.                    |
|                                                                                                                                                                                                                               |                   | PI        | TOP Series<br>LNK Series                        |
|                                                                                                                                                                                                                               |                   | NXP       | TEA1530<br>TEA1351<br>TEA3065<br>etc.           |
|                                                                                                                                                                                                                               |                   | ST        | Viper Series                                    |
|                                                                                                                                                                                                                               |                   | FAIRCHILD | FAN102<br>FAN400<br>FSEZ130<br>FSEZ1213<br>etc. |
|                                                                                                                                                                                                                               |                   | ON Bright | OB2535<br>OB2212<br>OB2361<br>etc.              |
|                                                                                                                                                                                                                               |                   |           |                                                 |
|                                                                                                                                                                                                                               |                   |           |                                                 |
|                                                                                                                                                                                                                               |                   |           |                                                 |
|                                                                                                                                                                                                                               |                   |           |                                                 |
|                                                                                                                                                                                                                               |                   |           |                                                 |
|                                                                                                                                                                                                                               |                   |           |                                                 |
|                                                                                                                                                                                                                               |                   |           |                                                 |
|                                                                                                                                                                                                                               |                   |           |                                                 |



- Primary / Secondary Insulation  $\geq 4000V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 85^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



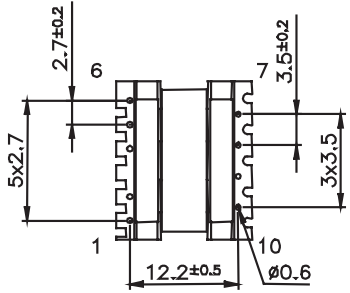
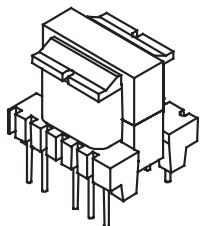
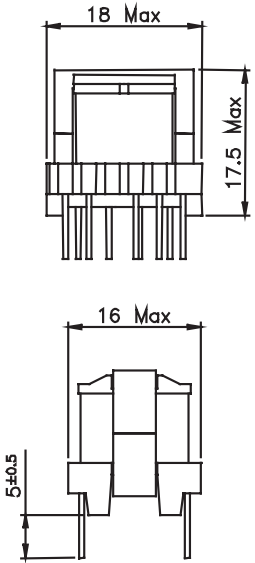
| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |                |                    |                        |
|----------------|----------------------------|----------|--------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74090          | 1.5 w                      | Pri      | 10 – 9 | 228   | 50 – 95 (VOR)  | 0.28 Apeak         | 6000µH                 |
|                |                            | S1       | 5 – 2  | 16    | 3.3 – 6 Vdc    | 0.4 Adc            |                        |
| 74091          | 1.5 w                      | Pri      | 10 – 9 | 228   | 65 – 130 (VOR) | 0.28 Apeak         | 6000µH                 |
|                |                            | S1       | 5 – 2  | 28    | 7.5 – 15 Vdc   | 0.2 Adc            |                        |

Examples of application with Integrated Circuits :

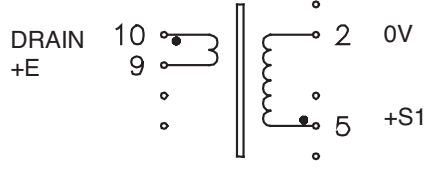
| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency |
|----------------|----------------------------|---------------|-------|-----------|
| 74090          | Power Integrations         | 85 - 265Vrms  | 1.5w  | 44kHz     |
| 74091          | Power Integrations         | 85 - 265Vrms  | 1.5w  | 44kHz     |



- Primary / Secondary Insulation  $\geq 4000V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 70^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



Pin 3 Removed  
PCB Drilling Diameter = 1.1mm

| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |                |                    |                        |
|----------------|----------------------------|----------|--------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74092          | 3.1 w                      | Pri      | 10 – 9 | 191   | 55 – 100 (VOR) | 0.34 Apeak         | 4200µH                 |
|                |                            | S1       | 5 – 2  | 13    | 3.3 – 6 Vdc    | 0.9 Adc            |                        |
| 74093          | 3.1 w                      | Pri      | 10 – 9 | 191   | 65 – 125 (VOR) | 0.34 Apeak         | 4200µH                 |
|                |                            | S1       | 5 – 2  | 24    | 7.5 – 15 Vdc   | 0.4 Adc            |                        |

Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage      | Power | Frequency |
|----------------|----------------------------|--------------------|-------|-----------|
| 74092          | Power Integrations         | 85 - 265Vrms       | 3.1w  | 44kHz     |
| 74093          | Power Integrations         | TNY25485 - 265Vrms | 3.1w  | 44kHz     |





- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 70^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

Pinout diagram for 74000:

|       |   |    |     |
|-------|---|----|-----|
| +E    | 6 | 7  | +S2 |
| DRAIN | 4 | 8  | 0V  |
| +AUX  | 2 | 9  | +S1 |
| 0V    | 1 | 10 | 0V  |

74000

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

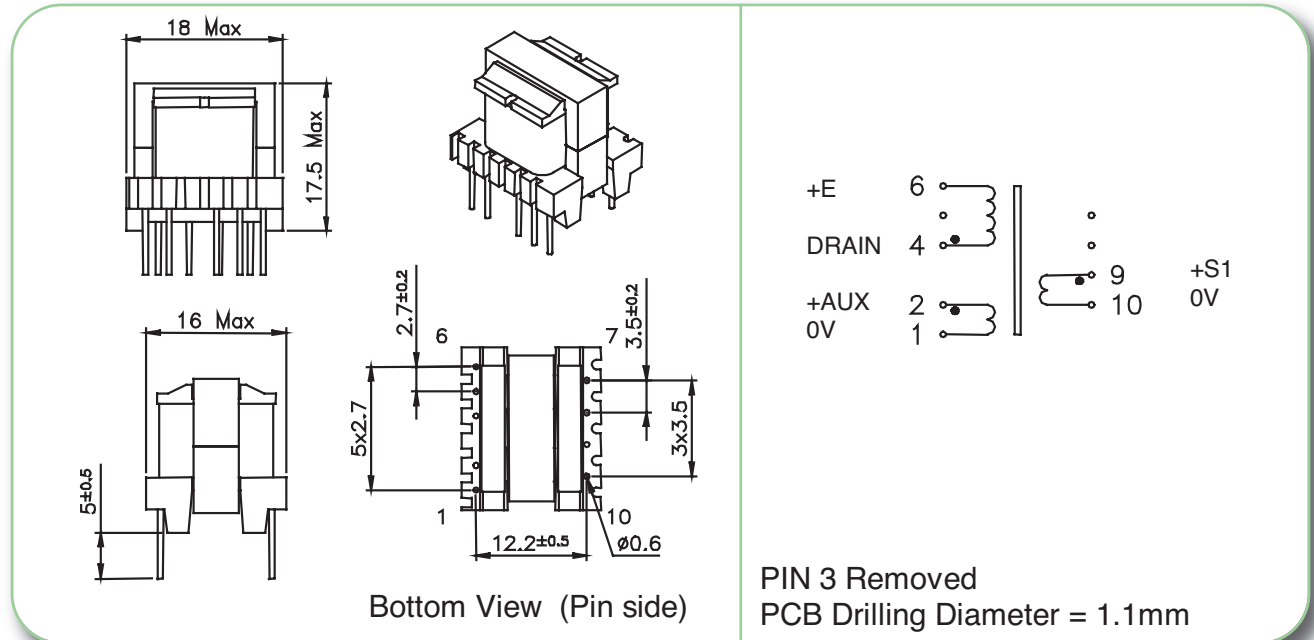
| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |                |                    |                        |
|----------------|----------------------------|----------|--------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74000          | 5 w                        | Pri      | 4 - 6  | 138   | 62 – 130 (VOR) | 0.27 Apeak         | 3900µH                 |
|                |                            | Aux      | 2 - 1  | 16    | 7 – 14 Vdc     | 0.1 Adc            |                        |
|                |                            | S1       | 9 - 10 | 8     | 3.3 – 7 Vdc    | 1.2 Adc            |                        |
|                |                            | S2       | 7 - 8  | 19    | 8 – 17 Vdc     | 0.4 Adc            |                        |

Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency |
|----------------|----------------------------|---------------|-------|-----------|
| 74000          | Power Integrations         | 85 - 265Vrms  | 5w    | 132kHz    |
|                | ST Microelectronics        | 85 - 265Vrms  | 4w    | 70kHz     |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 60^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |                |                    |                        |
|----------------|----------------------------|----------|--------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74001          | 6 w                        | Pri      | 4 - 6  | 138   | 60 – 120 (VOR) | 0.35 Apeak         | 3000μH                 |
|                |                            | Aux      | 2 - 1  | 20    | 8 – 16 Vdc     | 0.1 Adc            |                        |
|                |                            | S1       | 9 - 10 | 8     | 3 – 6 Vdc      | 1.2 Adc            |                        |
| 74002          | 6 w                        | Pri      | 4 - 6  | 150   | 60 – 120 (VOR) | 0.38 Apeak         | 3000μH                 |
|                |                            | Aux      | 2 - 1  | 22    | 8.5 – 17 Vdc   | 0.1 Adc            |                        |
|                |                            | S1       | 9 - 10 | 24    | 9 – 18 Vdc     | 0.5 Adc            |                        |

Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency |
|----------------|----------------------------|---------------|-------|-----------|
| 74001          | Power Integrations         | 85 - 265Vrms  | 6w    | 132kHz    |
|                | ST Microelectronics        | 85 - 265Vrms  | 6w    | 70kHz     |
|                | ST Microelectronics        | 85 - 265Vrms  | 3w    | 40kHz     |
|                | Motorola                   | 85 - 265Vrms  | 6w    | 100kHz    |
|                | Infineon                   | 185 - 265Vrms | 6w    | 100kHz    |
| 74002          | Power Integrations         | 85 - 265Vrms  | 6w    | 132kHz    |
|                | ST Microelectronics        | 85 - 265Vrms  | 6w    | 70kHz     |
|                | ST Microelectronics        | 85 - 265Vrms  | 3w    | 40kHz     |
|                | Motorola                   | 85 - 265Vrms  | 6w    | 100kHz    |
|                | Infineon                   | 185 - 265Vrms | 6w    | 100kHz    |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 60^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

Bottom View (Pin side)

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

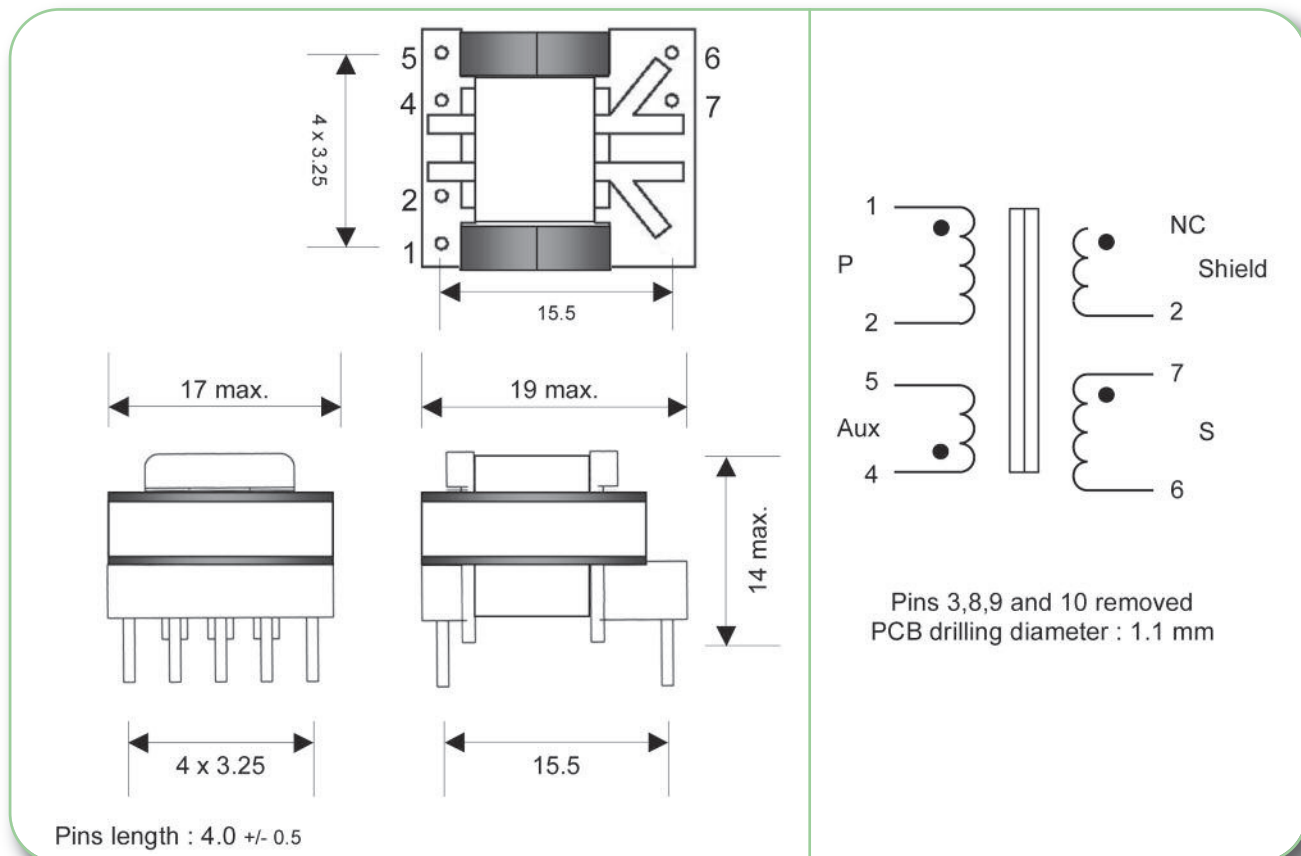
| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |                |                    |                        |
|----------------|----------------------------|----------|--------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74003          | 6 w                        | Pri      | 4 - 6  | 120   | 55 – 115 (VOR) | 0.3 Apeak          | 3000µH                 |
|                |                            | Aux      | 2 - 1  | 17    | 8 – 16 Vdc     | 0.1 Adc            |                        |
|                |                            | S1       | 9 - 10 | 5     | 2 – 4 Vdc      | 1.8 Adc            |                        |
|                |                            | S2       | 7 - 10 | 7     | 3 – 6 Vdc      | 1.2 Adc            |                        |

Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency |
|----------------|----------------------------|---------------|-------|-----------|
| 74003          | Power Integrations         | 85 - 265Vrms  | 5w    | 132kHz    |
|                | ST Microelectronics        | 85 - 265Vrms  | 6w    | 70kHz     |
|                | ST Microelectronics        | 85 - 265Vrms  | 3w    | 40kHz     |
|                | Motorola                   | 85 - 265Vrms  | 6w    | 100kHz    |
|                | Infineon                   | 185 - 265Vrms | 6w    | 100kHz    |



- Primary / Secondary Insulation  $\geq 4000$  V
- Primary / Auxiliary Insulation  $\geq 1500$  V
- Creepage distance Primary / Secondary  $\geq 6$ mm
- Ambient temperature  $< 50^{\circ}\text{C}$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94 V-0 listed materials



| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |                |                        |                        |
|----------------|----------------------------|----------|--------|-------|----------------|------------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage        | Current<br>maximum     | Inductance<br>(+/-10%) |
| 74004          | 1.7 w                      | Pri      | 1 - 2  | 108   | 60 – 125 (VOR) | 0.28 A <sub>peak</sub> | 2700 $\mu\text{H}$     |
|                |                            | Aux      | 5 - 4  | 25    | 22 Vdc         | 0.1 Adc                |                        |
|                |                            | S        | 7 - 6  | 8     | 6 Vdc          | 0.5 Adc                |                        |
|                |                            | Shield   | NC - 2 | 8     |                |                        |                        |

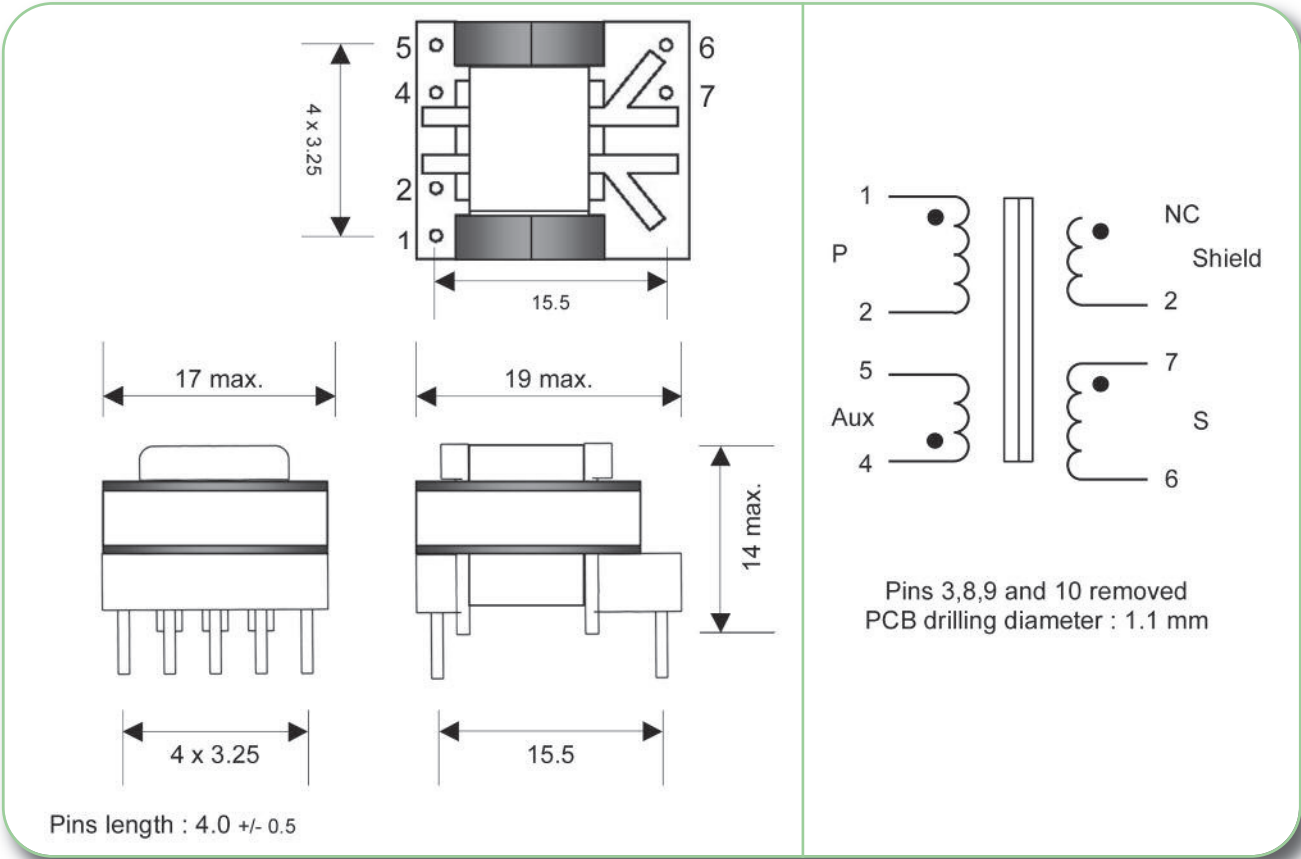
Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Control IC<br>P / N | Input voltage  | Power | Frequency |
|----------------|----------------------------|---------------------|----------------|-------|-----------|
| 74004          | Power Integrations         | LNK562              | 185 - 265 Vrms | 1.3 W | 66 kHz    |
|                | Power integrations         | LNK562              | 85 - 265 Vrms  | 1.3 W | 66 kHz    |
|                | Power Integrations         | LNK563              | 185 - 265 Vrms | 1.7 W | 83 kHz    |
|                | Power Integrations         | LNK563              | 85 - 265 Vrms  | 1.7 W | 83 kHz    |
|                | Power Integrations         | LNK564              | 185 - 265 Vrms | 2.0 W | 100 kHz   |
|                | Power Integrations         | LNK564              | 85 - 265 Vrms  | 2.0 W | 100 kHz   |

**Remarks :** This transformer perfectly fulfils the specification of Power Integrations AN-39 Appendix - A.



- Primary / Secondary Insulation  $\geq 4000\text{ V}$
- Primary / Auxiliary Insulation  $\geq 1500\text{ V}$
- Creepage distance Primary / Secondary  $\geq 6\text{ mm}$
- Ambient temperature  $< 50^{\circ}\text{C}$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94 V-0 listed materials



| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |       |        |                |                    |                        |
|----------------|----------------------------|----------|-------|--------|----------------|--------------------|------------------------|
|                |                            |          | Pins  | Turns  | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74005          | 1.7 w                      | Pri      | 1 - 2 | 108    | 60 – 125 (VOR) | 0.28 Apeak         | 2700 $\mu\text{H}$     |
|                | Aux                        | 5 - 4    | 25    | 22 Vdc | 0.1 Adc        |                    |                        |
|                | S                          | 7 - 6    | 12    | 10 Vdc | 0.2 Adc        |                    |                        |
|                | Shield                     | NC - 2   | 8     |        |                |                    |                        |

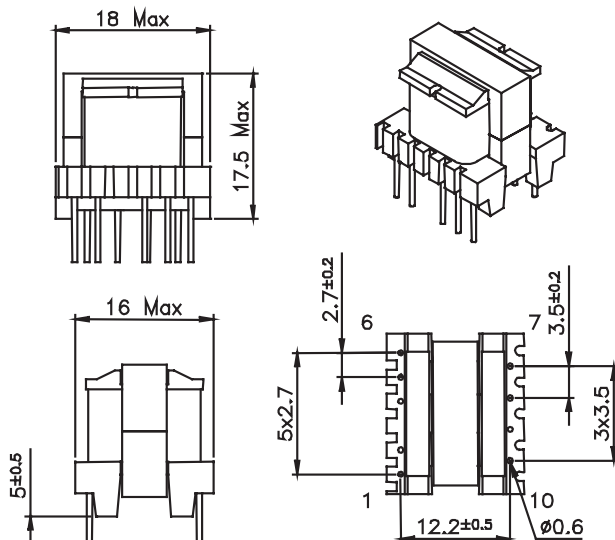
Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Control IC<br>P / N | Input voltage  | Power | Frequency |
|----------------|----------------------------|---------------------|----------------|-------|-----------|
| 74005          | Power Integrations         | LNK562              | 185 - 265 Vrms | 1.3 W | 66 kHz    |
|                | Power integrations         | LNK562              | 85 - 265 Vrms  | 1.3 W | 66 kHz    |
|                | Power Integrations         | LNK563              | 185 - 265 Vrms | 1.7 W | 83 kHz    |
|                | Power Integrations         | LNK563              | 85 - 265 Vrms  | 1.7 W | 83 kHz    |
|                | Power Integrations         | LNK564              | 185 - 265 Vrms | 2.0 W | 100 kHz   |
|                | Power Integrations         | LNK564              | 85 - 265 Vrms  | 2.0 W | 100 kHz   |

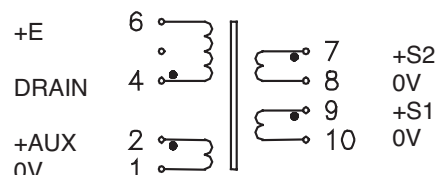
Remarks : This transformer perfectly fulfils the specification of Power Integrations AN-39 Appendix - B.



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



74010

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |                |                    |                        |
|----------------|----------------------------|----------|--------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74010          | 12 w                       | Pri      | 4 - 6  | 120   | 60 – 125 (VOR) | 0.55 Apeak         | 1660µH                 |
|                |                            | Aux      | 2 - 1  | 14    | 7 – 14 Vdc     | 0.1 Adc            |                        |
|                |                            | S1       | 9 - 10 | 7     | 3.3 – 7 Vdc    | 2 Adc              |                        |
|                |                            | S2       | 7 - 8  | 17    | 8 – 17 Vdc     | 1 Adc              |                        |

Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency |
|----------------|----------------------------|---------------|-------|-----------|
| 74010          | Power Integrations         | 185 - 265Vrms | 12w   | 132kHz    |
|                | Power Integrations         | 85 - 265Vrms  | 10w   | 132kHz    |
|                | Power Integrations         | 185 - 265Vrms | 12w   | 132kHz    |
|                | Power Integrations         | 85 - 265Vrms  | 10w   | 132kHz    |
|                | Power Integrations         | 185 - 265Vrms | 12w   | 132kHz    |
|                | ST Microelectronics        | 85 - 265Vrms  | 8w    | 70kHz     |
|                | ST Microelectronics        | 185 - 265Vrms | 10w   | 70kHz     |
|                | Motorola                   | 85 - 265Vrms  | 8w    | 100kHz    |
|                | Motorola                   | 185 - 265Vrms | 10w   | 100kHz    |
|                | Infineon                   | 92 - 265Vrms  | 7,5w  | 100kHz    |
|                | Infineon                   | 185 - 265Vrms | 10w   | 100kHz    |
|                | Fairchild                  | 85 - 265Vrms  | 7w    | 50kHz     |
|                | Fairchild                  | 185 - 265Vrms | 10w   | 100kHz    |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

Bottom View (Pin side)

74014

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |                |                    |                        |
|----------------|----------------------------|----------|--------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74014          | 12 w                       | Pri      | 4 - 6  | 120   | 70 – 140 (VOR) | 0.5 Apeak          | 1800µH                 |
|                |                            | Aux      | 2 - 1  | 17    | 9 – 18 Vdc     | 0.2 Adc            |                        |
|                |                            | S1       | 9 - 10 | 27    | 15 – 30 Vdc    | 0.4 Adc            |                        |
|                |                            | S2       | 7 - 8  | 27    | 15 – 30 Vdc    | 0.4 Adc            |                        |

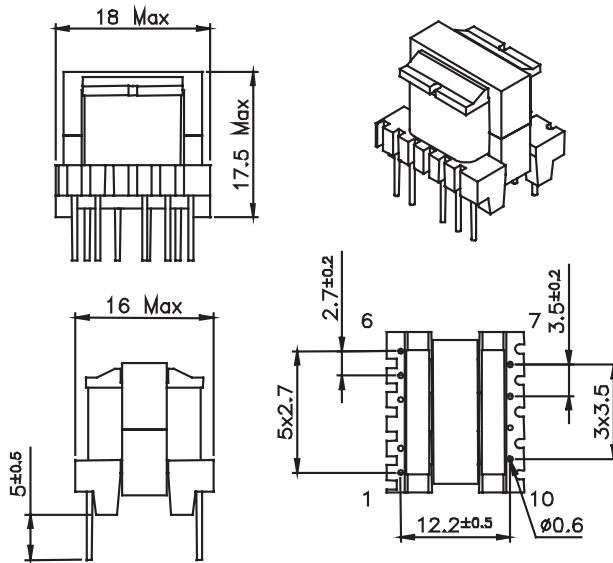
Typical outputs :  
+24V 0.5A with S1 – S2 in parallel  
+48V 0.25A with S1 – S2 in series (8-9 connected)  
+15V / -15V 0.4A with pins 8-9 connected to 0V

Examples of application with Integrated Circuits :

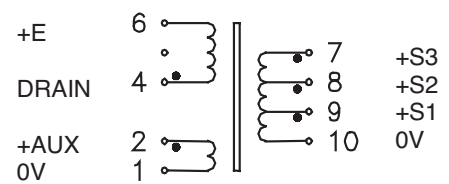
| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency |
|----------------|----------------------------|---------------|-------|-----------|
| 74014          | Power Integrations         | 185 - 265Vrms | 12w   |           |
|                | Power Integrations         | 85 - 265Vrms  | 8w    |           |
|                | Power Integrations         | 185 - 265Vrms | 12w   | 132kHz    |
|                | Power Integrations         | 85 - 265Vrms  | 8w    | 132kHz    |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



74015

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

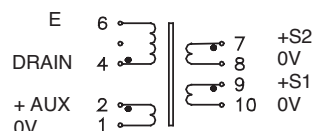
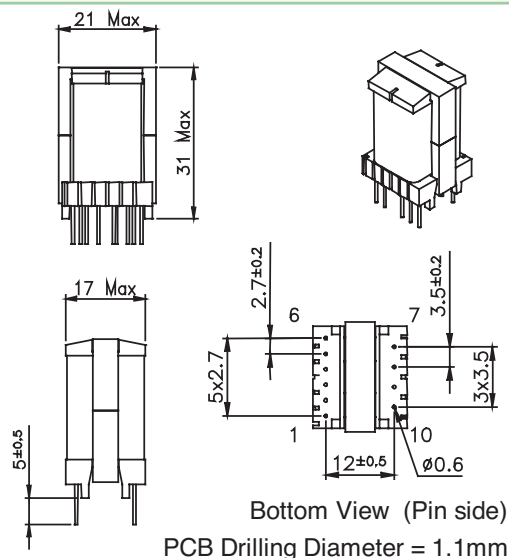
| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |           |                    |                        |
|----------------|----------------------------|----------|--------|-------|-----------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage   | Current<br>maximum | Inductance<br>(+/-10%) |
| <b>74015</b>   | 12 w                       | Pri      | 4 - 6  | 120   | 110 (VOR) | 0.5 Apeak          | 1800μH                 |
|                |                            | Aux      | 2 - 1  | 14    | 12 Vdc    | 0.2 Adc            |                        |
|                |                            | S1       | 9 - 10 | 6     | 5 Vdc     | 1.5 Adc            |                        |
|                |                            | S2       | 8 - 10 | 17    | 15 Vdc    | 0.6 Adc            |                        |
|                |                            | S3       | 7 - 10 | 27    | 24 Vdc    | 0.4 Adc            |                        |

Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency |
|----------------|----------------------------|---------------|-------|-----------|
| <b>74015</b>   | Power Integrations         | 185 - 265Vrms | 10w   |           |
|                | Power Integrations         | 85 - 265Vrms  | 8w    |           |
|                | Power Integrations         | 185 - 265Vrms | 12w   | 132kHz    |
|                | Power Integrations         | 85 - 265Vrms  | 9w    | 132kHz    |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



74020 / 74021

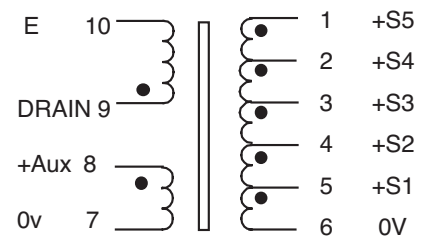
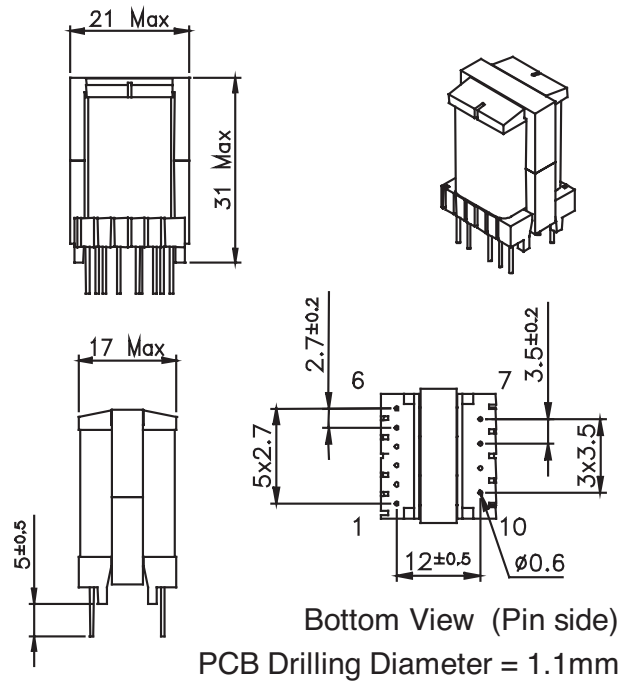
| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |                |                    |                        |
|----------------|----------------------------|----------|--------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74020          | 18 w                       | Pri      | 4 - 6  | 108   | 65 – 130 (VOR) | 0.8 Apeak          | 1250μH                 |
|                |                            | Aux      | 2 - 1  | 12    | 7 – 14 Vdc     | 0.1 Adc            |                        |
|                |                            | S1       | 9 - 10 | 6     | 3.3 – 7 Vdc    | 3 Adc              |                        |
|                |                            | S2       | 7 - 8  | 14    | 8 – 16.5 Vdc   | 1.4 Adc            |                        |
| 74021          | 18 w                       | Pri      | 4 - 6  | 108   | 65 – 130 (VOR) | 1.1 Apeak          | 900μH                  |
|                |                            | Aux      | 2 - 1  | 12    | 7 – 14 Vdc     | 0.1 Adc            |                        |
|                |                            | S1       | 9 - 10 | 6     | 3.3 – 7 Vdc    | 3 Adc              |                        |
|                |                            | S2       | 7 - 8  | 14    | 8 – 16.5 Vdc   | 1.4 Adc            |                        |

Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency |
|----------------|----------------------------|---------------|-------|-----------|
| 74020          | Power Integrations         | 85 - 265Vrms  | 15w   | 132kHz    |
|                | Power Integrations         | 185 - 265Vrms | 18w   | 132kHz    |
|                | Power Integrations         | 85 - 265Vrms  | 12w   | 132kHz    |
|                | ST Microelectronics        | 85 - 265Vrms  | 10w   | 100kHz    |
|                | ST Microelectronics        | 185 - 265Vrms | 12w   | 100kHz    |
|                | ST Microelectronics        | 185 - 265Vrms | 16w   | 100kHz    |
|                | Motorola                   | 185 - 265Vrms | 16w   | 100kHz    |
|                | Infineon                   | 185 - 265Vrms | 16w   | 100kHz    |
| 74021          | ST Microelectronics        | 85 - 265Vrms  | 13w   | 70kHz     |
|                | Motorola                   | 85 - 265Vrms  | 13w   | 100kHz    |
|                | Infineon                   | 92 - 265Vrms  | 10w   | 100kHz    |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 60^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



74023

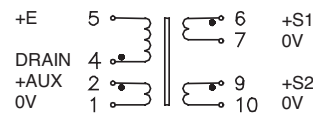
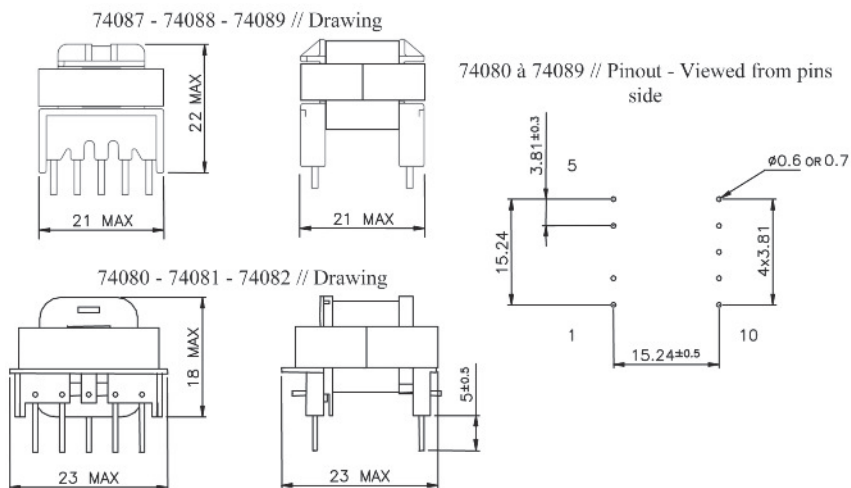
| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |           |                    |                        |
|----------------|----------------------------|----------|--------|-------|-----------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage   | Current<br>maximum | Inductance<br>(+/-10%) |
| <b>74023</b>   | 16 w                       | Pri      | 9 – 10 | 120   | 110 (VOR) | 0.85 Apeak         | 1250µH                 |
|                |                            | Aux      | 8 – 7  | 17    | 15 Vdc    | 0.2 Adc            |                        |
|                |                            | S1       | 5 – 6  | 4     | 3.3 Vdc   | 2 Adc              |                        |
|                |                            | S2       | 4 – 6  | 6     | 5 Vdc     | Sum S1+S2          |                        |
|                |                            | S3       | 3 – 6  | 14    | 12 Vdc    | 0.8 Adc            |                        |
|                |                            | S4       | 2 – 6  | 20    | 18 Vdc    | 0.8 Adc            |                        |
|                |                            | S5       | 1 – 6  | 33    | 30 Vdc    | 0.2 Adc            |                        |

Examples of application with Integrated Circuits :

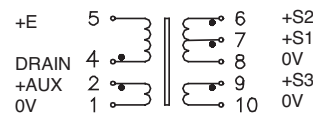
| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency |
|----------------|----------------------------|---------------|-------|-----------|
| <b>74023</b>   | Power Integrations         | 185 - 265Vrms | 16w   | 132kHz    |
|                | Power Integrations         | 85 - 265Vrms  | 12w   | 132kHz    |



- Primary / Secondary Insulation  $\geq 4000V$  • Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 8mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



74080 - 74082  
74087 - 74089



74081 - 74088

PIN 3 Removed  
PCB Drilling Diameter = 1.2mm

| MYRRA<br>P / N               | Output<br>Power<br>maximum | Windings |        |       |                |                    |                        |
|------------------------------|----------------------------|----------|--------|-------|----------------|--------------------|------------------------|
|                              |                            |          | Pins   | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| <b>74080</b><br><b>74087</b> | 24 w                       | Pri      | 4 – 5  | 86    | 80 – 135 (VOR) | 1.0 Apeak          | 1000μH                 |
|                              |                            | Aux      | 2 – 1  | 12    | 11 - 18 Vdc    | 0.3 Adc            |                        |
|                              |                            | S1       | 6 – 7  | 10    | 9 – 15 Vdc     | 1.5 Adc            |                        |
|                              |                            | S2       | 9 – 10 | 10    | 9 – 15 Vdc     | 1.5 Adc            |                        |
| <b>74081</b><br><b>74088</b> | 20 w                       | Pri      | 4 – 5  | 80    | 75 (VOR)       | 0.9 Apeak          | 1100μH                 |
|                              |                            | Aux      | 2 – 1  | 17    | 15 Vdc         | 0.3 Adc            |                        |
|                              |                            | S1       | 7 – 8  | 4     | 3.3 Vdc        | 3 Adc              |                        |
|                              |                            | S2       | 6 – 8  | 6     | 5 Vdc          | Sum S1+S2          |                        |
|                              |                            | S3       | 9 – 10 | 14    | 12 Vdc         | 1.3 Adc            |                        |
| <b>74082</b><br><b>74089</b> | 20 w                       | Pri      | 4 – 5  | 86    | 60 – 135 (VOR) | 0.85 Apeak         | 1300μH                 |
|                              |                            | Aux      | 2 – 1  | 12    | 7 - 18 Vdc     | 0.3 Adc            |                        |
|                              |                            | S1       | 6 – 7  | 5     | 3 – 7.5 Vdc    | 2.0 Adc            |                        |
|                              |                            | S2       | 9 – 10 | 5     | 3 – 7.5 Vdc    | 2.0 Adc            |                        |

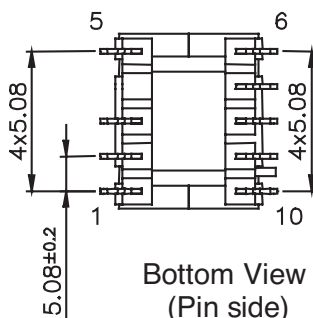
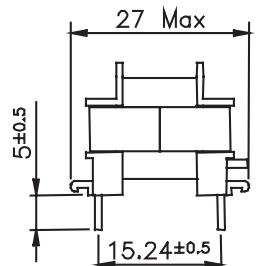
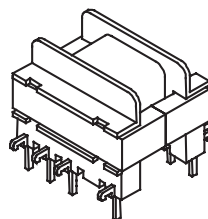
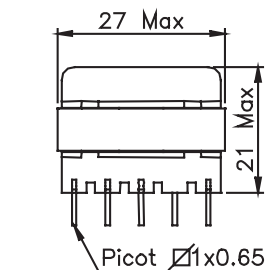
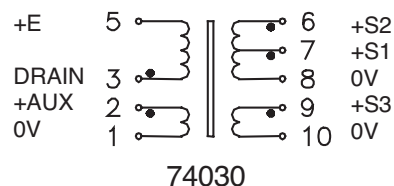
Note for 74080 and 74082 : S1 and S2 can be connected in series or in parallel

Examples of application with Integrated Circuits :

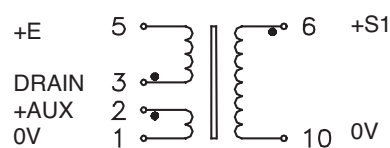
| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency |
|----------------|----------------------------|---------------|-------|-----------|
| <b>74080</b>   | Power Integrations         | 185 - 265Vrms | 24w   | 132kHz    |
| <b>74087</b>   | Power Integrations         | 85 - 265Vrms  | 15w   | 132kHz    |
| <b>74081</b>   | Power Integrations         | 185 - 265Vrms | 20w   | 132kHz    |
| <b>74088</b>   | Power Integrations         | 85 – 265Vrms  | 12w   | 132kHz    |
| <b>74082</b>   | Power Integrations         | 185 - 265Vrms | 20w   | 132kHz    |
| <b>74089</b>   | Power Integrations         | 85 – 265Vrms  | 14w   | 132kHz    |
|                | Power Integrations         | 185 - 265Vrms | 17w   | < 120kHz  |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

Bottom View  
(Pin side)

74030



74032

PIN 4 Removed  
PCB Drilling Diameter = 1.4mm

| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |        |       |                |                    |                        |
|----------------|----------------------------|----------|--------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins   | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74030          | 30 w                       | Pri      | 3 – 5  | 70    | 65 – 130 (VOR) | 1.5 Apeak          | 750μH                  |
|                |                            | Aux      | 2 – 1  | 8     | 7 – 14.5 Vdc   | 1 Adc              |                        |
|                |                            | S1       | 7 – 8  | 4     | 3.3 - 7        | 3 Adc              |                        |
|                |                            | S2       | 6 – 8  | 9     | 8 – 16 Vdc     | 1.5 Adc            |                        |
|                |                            | S3       | 9 – 10 | 9     | 8 – 16 Vdc     | 1.5 Adc            |                        |
| 74032          | 35 w                       | Pri      | 3 – 5  | 72    | 62 - 125 (VOR) | 1.1 Apeak          | 1100μH                 |
|                |                            | Aux      | 2 – 1  | 10    | 8 - 16 Vdc     | 1 Adc              |                        |
|                |                            | S1       | 6 – 10 | 18    | 15 - 30 Vdc    | 1.4 Adc            |                        |

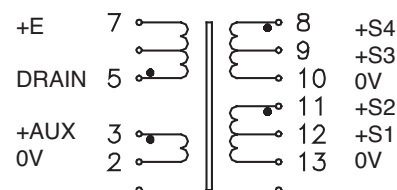
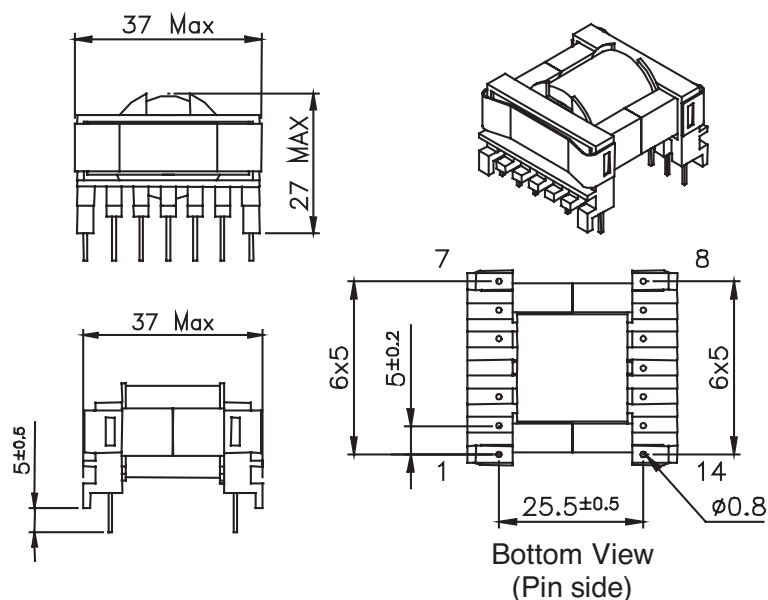
Note for 74030 : S2 and S3 can be connected in series or in parallel

Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency    |
|----------------|----------------------------|---------------|-------|--------------|
| 74030          | Power Integrations         | 185 - 265Vrms | 30w   | 132kHz       |
|                | Power Integrations         | 85 - 265Vrms  | 25w   | 66 or 132kHz |
|                | ST Microelectronics        | 85 - 265Vrms  | 22w   | 70kHz        |
|                | ST Microelectronics        | 185 - 265Vrms | 30w   | 70kHz        |
|                | Motorola                   | 85 - 265Vrms  | 22w   | 100kHz       |
|                | Motorola                   | 185 - 265Vrms | 30w   | 100kHz       |
|                | Infineon                   | 185 - 265Vrms | 30w   | 100kHz       |
|                | Fairchild                  | 85 - 265Vrms  | 22w   | 100kHz       |
| 74032          | Power Integrations         | 185 - 265Vrms | 25w   | 132kHz       |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 8mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



PIN 4 Removed  
PCB Drilling Diameter = 1.3mm

| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |         |       |                |                    |                        |
|----------------|----------------------------|----------|---------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins    | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| <b>74040</b>   | 60 w                       | Pri      | 5 – 7   | 50    | 60 – 125 (VOR) | 3.0 Apeak          | 500µH                  |
|                |                            | Aux      | 3 – 2   | 6     | 7 – 14.5 Vdc   | 0.5 Adc            |                        |
|                |                            | S1       | 12 – 13 | 3     | 3.3 - 7        | 4 Adc              |                        |
|                |                            | S2       | 11 – 13 | 7     | 8 – 16.5 Vdc   | 2.5 Adc            |                        |
|                |                            | S3       | 9 – 10  | 3     | 3.3 - 7        | 4 Adc              |                        |
|                |                            | S4       | 8 - 10  | 7     | 8 – 16.5 Vdc   | 2.5 Adc            |                        |

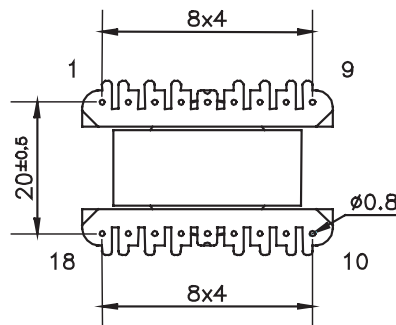
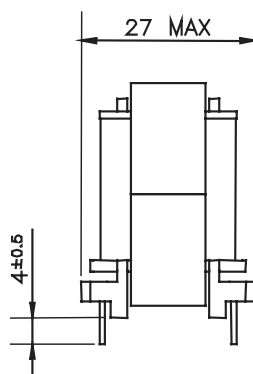
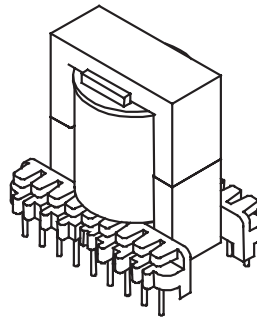
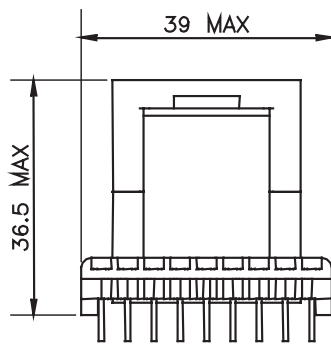
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

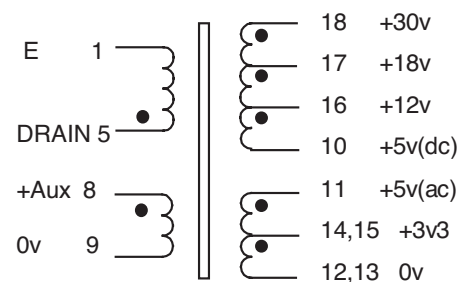
| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency    |
|----------------|----------------------------|---------------|-------|--------------|
| <b>74040</b>   | Power Integrations         | 185 - 265Vrms | 60w   | 66 or 132kHz |
|                | Power Integrations         | 85 - 265Vrms  | 45w   | 66 or 132kHz |
|                | ST Microelectronics        | 85 - 265Vrms  | 35w   | 100kHz       |
|                | ST Microelectronics        | 185 - 265Vrms | 45w   | 100kHz       |
|                | Motorola                   | 85 - 265Vrms  | 35w   | 100kHz       |
|                | Motorola                   | 185 - 265Vrms | 45w   | 100kHz       |
|                | Infineon                   | 92 - 265Vrms  | 35w   | 100kHz       |
|                | Infineon                   | 185 - 265Vrms | 45w   | 100kHz       |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



PCB Drilling Diameter = 1.3mm

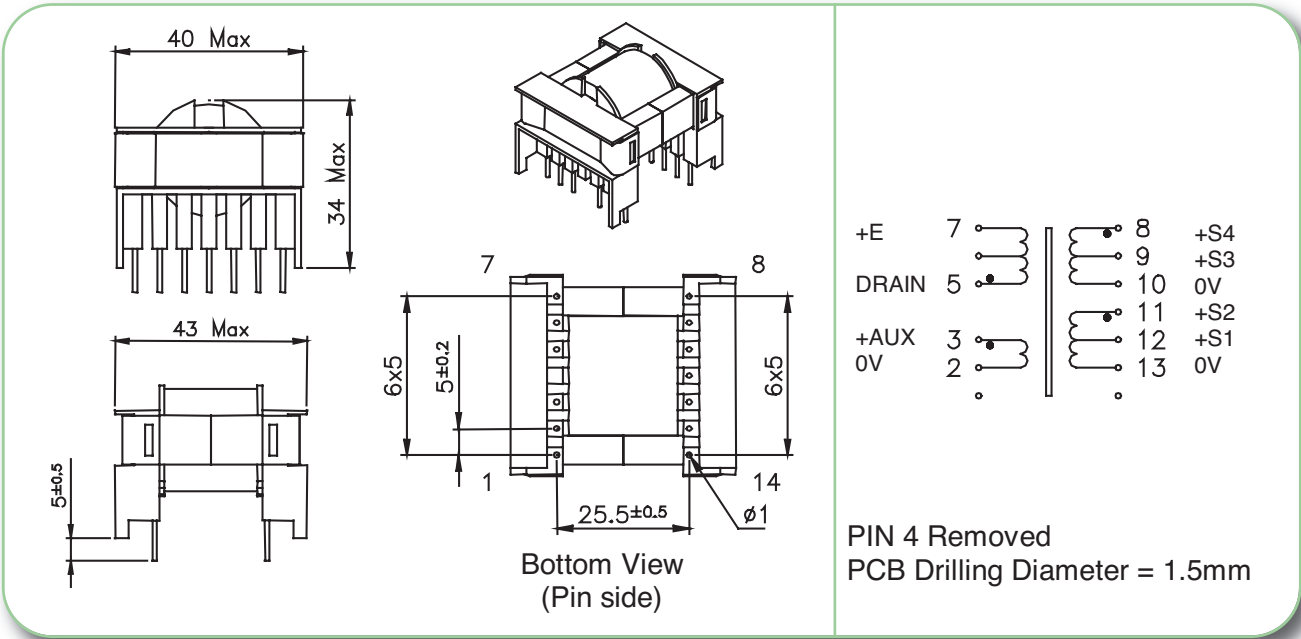
| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |               |       |          |                     |                        |
|----------------|----------------------------|----------|---------------|-------|----------|---------------------|------------------------|
|                |                            |          | Pins          | Turns | Voltage  | Current<br>maximum  | Inductance<br>(+/-10%) |
|                | 60w                        | Pri      | 5 – 1         | 45    | 90 (VOR) | 3 Apeak             | 500μH                  |
|                |                            | S1       | 14+15 / 12+13 | 2     | 3.3 Vdc  | 7 A <sub>dc</sub>   |                        |
|                |                            | S3       | 16 – 10       | 4     | 12 Vdc   | 2 A <sub>dc</sub>   |                        |
|                |                            |          |               |       |          | Sum S1+S2           |                        |
|                |                            | S5       | 18 – 10       | 13    | 30 Vdc   | 0.5 A <sub>dc</sub> |                        |

Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency    |
|----------------|----------------------------|---------------|-------|--------------|
| 74043          | Power Integrations         | 185 - 265Vrms | 60w   | 66 or 132kHz |
|                | Power Integrations         | 85 - 265Vrms  | 45w   | 66 or 132kHz |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 8mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |         |       |                |                    |                        |
|----------------|----------------------------|----------|---------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins    | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74050          | 90 w                       | Pri      | 5 – 7   | 36    | 65 – 125 (VOR) | 2.8 Apeak          | 500µH                  |
|                |                            | Aux      | 3 – 2   | 4     | 7 – 14 Vdc     | 0.5 Adc            |                        |
|                |                            | S1       | 12 – 13 | 2     | 3.3 – 6.5      | 5 Adc              |                        |
|                |                            | S2       | 11 – 13 | 5     | 8.5 – 17 Vdc   | 3 Adc              |                        |
|                |                            | S3       | 9 – 10  | 2     | 3.3 – 6.5      | 5 Adc              |                        |
|                |                            | S4       | 8 - 10  | 5     | 8.5 – 17 Vdc   | 3 Adc              |                        |

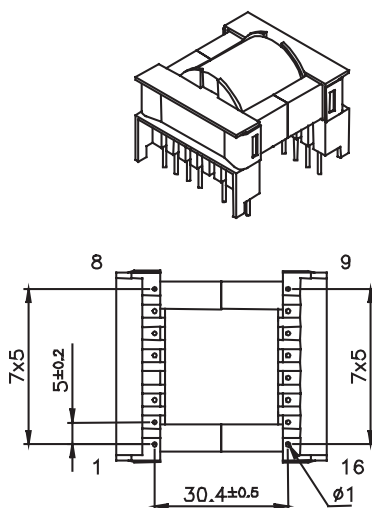
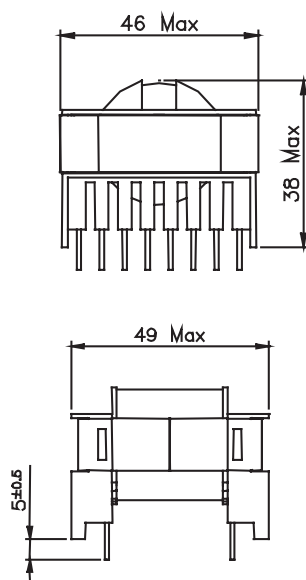
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

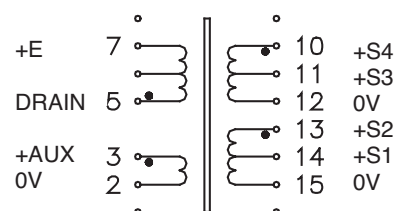
| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency    |
|----------------|----------------------------|---------------|-------|--------------|
| 74050          | Power Integrations         | 185 - 265Vrms | 90w   | 132kHz       |
|                | Power Integrations         | 85 - 265Vrms  | 60w   | 66 or 132kHz |
|                | ST Microelectronics        | 185 - 265Vrms | 80w   | 70kHz        |
|                | ST Microelectronics        | 85 - 265Vrms  | 60w   | 70kHz        |
|                | Motorola                   | 185 - 265Vrms | 80w   | 100kHz       |
|                | Motorola                   | 85 - 265Vrms  | 60w   | 100kHz       |
|                | Infineon                   | 185 - 265Vrms | 80w   | 100kHz       |
|                | Infineon                   | 85 - 265Vrms  | 60w   | 100kHz       |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 8mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View  
(Pin side)



PIN 4 Removed  
PCB Drilling Diameter = 1.5mm

| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |         |       |                |                    |                        |
|----------------|----------------------------|----------|---------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins    | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74060          | 140 w                      | Pri      | 5 – 7   | 36    | 65 – 125 (VOR) | 4 Apeak            | 440µH                  |
|                |                            | Aux      | 3 – 2   | 4     | 7 – 14 Vdc     | 0.5 Adc            |                        |
|                |                            | S1       | 14 – 15 | 2     | 3.3 – 6.5      | 5 Adc              |                        |
|                |                            | S2       | 13 – 15 | 5     | 8.5 – 17 Vdc   | 5 Adc              |                        |
|                |                            | S3       | 11 – 12 | 2     | 3.3 – 6.5      | 5 Adc              |                        |
|                |                            | S4       | 10 – 12 | 5     | 8.5 – 17 Vdc   | 5 Adc              |                        |

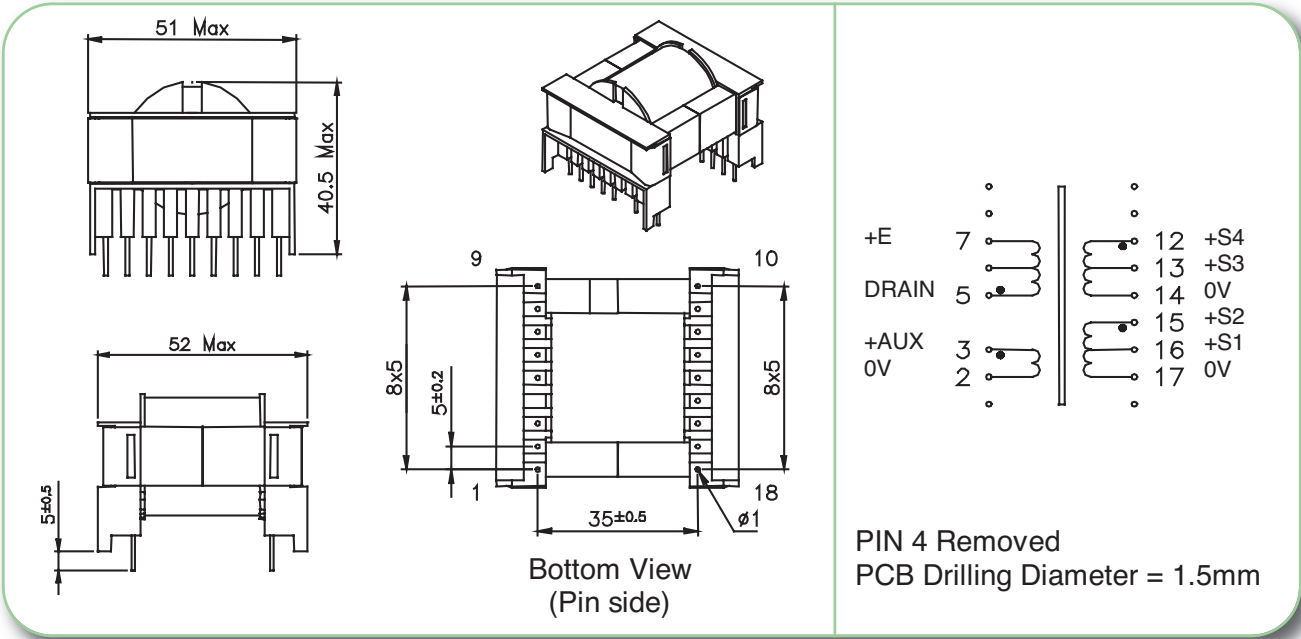
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency    |
|----------------|----------------------------|---------------|-------|--------------|
| 74060          | Power Integrations         | 185 - 265Vrms | 140w  | 132kHz       |
|                | Power Integrations         | 85 - 265Vrms  | 90w   | 66 or 132kHz |
|                | ST Microelectronics        | 85 - 265Vrms  | 70w   | 70kHz        |
|                | ST Microelectronics        | 185 - 265Vrms | 120w  | 100kHz       |
|                | Motorola                   | 85 - 265Vrms  | 70w   | 100kHz       |
|                | Motorola                   | 185 - 265Vrms | 120w  | 100kHz       |
|                | Infineon                   | 85 - 265Vrms  | 70w   | 100kHz       |
|                | Infineon                   | 185 - 265Vrms | 120w  | 100kHz       |
|                | Fairchild                  | 85 - 265Vrms  | 70w   | 100kHz       |
|                | Fairchild                  | 185 - 265Vrms | 120w  | 100kHz       |



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 8mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



| MYRRA<br>P / N | Output<br>Power<br>maximum | Windings |         |       |                |                    |                        |
|----------------|----------------------------|----------|---------|-------|----------------|--------------------|------------------------|
|                |                            |          | Pins    | Turns | Voltage        | Current<br>maximum | Inductance<br>(+/-10%) |
| 74070          | 180 w                      | Pri      | 5 – 7   | 38    | 65 – 125 (VOR) | 8 Apeak            | 300µH                  |
|                |                            | Aux      | 3 – 2   | 4     | 7 – 14 Vdc     | 0.5 Adc            |                        |
|                |                            | S1       | 16 – 17 | 2     | 3.3 – 6.5      | 6 Adc              |                        |
|                |                            | S2       | 15 – 17 | 5     | 8.5 – 17 Vdc   | 5 Adc              |                        |
|                |                            | S3       | 13 – 14 | 2     | 3.3 – 6.5      | 6 Adc              |                        |
|                |                            | S4       | 12 – 14 | 5     | 8.5 – 17 Vdc   | 5 Adc              |                        |

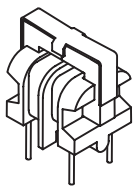
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

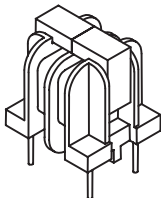
| MYRRA<br>P / N | Control IC<br>Manufacturer | Input voltage | Power | Frequency    |
|----------------|----------------------------|---------------|-------|--------------|
| 74070          | Power Integrations         | 185 - 265Vrms | 180w  | 66 or 132kHz |
|                | Power Integrations         | 85 - 265Vrms  | 120w  | 66kHz        |
|                | Infineon                   | 185 - 265Vrms | 160w  | 100kHz       |
|                | Fairchild                  | 185 - 265Vrms | 160w  | 100kHz       |
|                | Philips                    | 185 - 265Vrms | 120w  | 50kHz        |



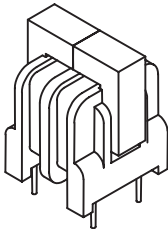
| Size     | Max. output power | Insulation                                       | Dimensions - Pinout                                               |
|----------|-------------------|--------------------------------------------------|-------------------------------------------------------------------|
| EF12.6   | 4 W               | Reinforced<br>Creepage distances:<br>6.0 mm min. |                                                                   |
| E13      | 5 W               | Reinforced<br>Creepage distances:<br>6.0 mm min. |                                                                   |
| EL19     | 20 W              | Reinforced<br>Creepage distances:<br>6.0 mm min. |                                                                   |
| EF20     | 24 W              | Reinforced<br>Creepage distances:<br>8.0 mm min. |                                                                   |
| E13      | 5 W               | Functionnal                                      |                                                                   |
| E16      | 12 W              | Reinforced<br>Creepage distances:<br>6.0 mm min. |                                                                   |
| EF20     | 24 W              | Reinforced<br>Creepage distances:<br>8.0 mm min. |                                                                   |
| E25      | 35 W              | Reinforced<br>Creepage distances:<br>6.0 mm min. |                                                                   |
| Rev. : 0 |                   |                                                  | Feb., 24 <sup>th</sup> 2010                                       |
|          |                   |                                                  | These sizes are just examples, other pinout and dimensions exist. |



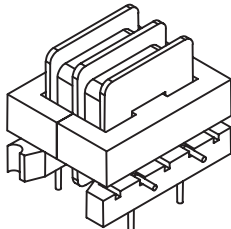
U9.8



U10.5



U16



E25

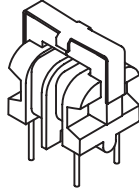
- Mainly used to reduce noise conducted through power or signal lines.
- The common mode inductance filters symmetrical noise, associated with Y-type safety capacitors connected to ground.
- The differential mode inductance filters asymmetrical noise, associated with X-type capacitor connected between Line and Neutral.

| MYRRA<br>Part N° | SIZE  | Inductance range | Current range |
|------------------|-------|------------------|---------------|
| 74330 - 74335    | U9.8  | 1.5 to 47mH      | 0.18 to 1.1A  |
| 74300 - 74306    | U10.5 | 1.5 to 68mH      | 0.30 to 1.9A  |
| 74310 - 74315    | U16   | 1.5 to 33mH      | 0.75 to 3.3A  |
| 74320 - 74325    | E25   | 1.5 to 33mH      | 0.90 to 4.0A  |



- Ambient Temperature  $\leq 50^{\circ}\text{C}$
- Dielectric Strength  $\geq 1.5 \text{ kV}$  between windings
- Electrical characteristics at  $25^{\circ}\text{C}$

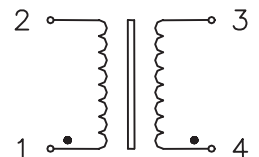
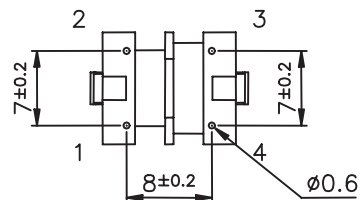
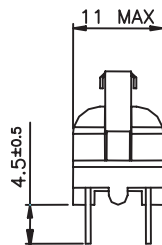
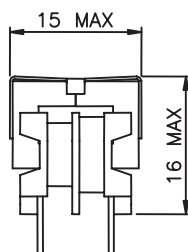
SIZE : U9.8



### ELECTRICAL CHARACTERISTICS :

| MYRRA<br>Part N° | Inductance<br>Common Mode<br>min - max (mH) | Rated<br>Current<br>Arms | Resistance<br>per winding<br>ohm max | Inductance<br>Differential Mode<br>$\mu\text{H}$ min | Resonant<br>Frequency<br>kHz min |
|------------------|---------------------------------------------|--------------------------|--------------------------------------|------------------------------------------------------|----------------------------------|
| 74330            | 33 - 56                                     | 0.18                     | 7                                    | 710                                                  | 210                              |
| 74331            | 18 - 31                                     | 0.26                     | 3.5                                  | 360                                                  | 280                              |
| 74332            | 10 - 17                                     | 0.35                     | 2.0                                  | 210                                                  | 400                              |
| 74333            | 4.7 - 8                                     | 0.5                      | .95                                  | 100                                                  | 610                              |
| 74334            | 2.2 - 3.7                                   | 0.8                      | .4                                   | 45                                                   | 910                              |
| 74335            | 1 - 1.7                                     | 1.1                      | .21                                  | 20                                                   | 1300                             |

### MECHANICAL CHARACTERISTICS / PINOUT :

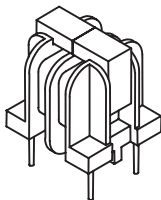


View from pin side  
PCB Drilling diameter 1.0 mm



- Ambient Temperature  $\leq 50^{\circ}\text{C}$
- Dielectric Strength  $\geq 1.5\text{ kV}$  between windings
- Electrical characteristics at  $25^{\circ}\text{C}$

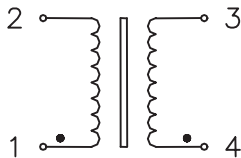
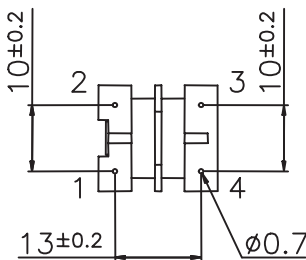
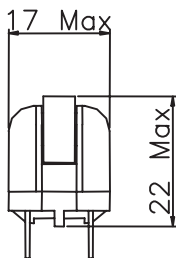
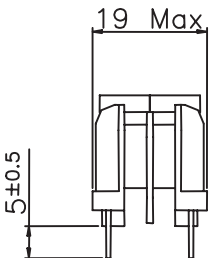
SIZE : U10.5



ELECTRICAL CHARACTERISTICS :

| MYRRA<br>Part N° | Inductance<br>Common Mode<br>min - max (mH) | Rated<br>Current<br>Arms | Resistance<br>per winding<br>ohm max | Inductance<br>Differential Mode<br>$\mu\text{H}$ min | Resonant<br>Frequency<br>kHz min |
|------------------|---------------------------------------------|--------------------------|--------------------------------------|------------------------------------------------------|----------------------------------|
| 74306            | 51 - 85                                     | 0.3                      | 4                                    | 530                                                  | 125                              |
| 74300            | 33 - 56                                     | 0,35                     | 3                                    | 400                                                  | 170                              |
| 74301            | 18 - 31                                     | 0,45                     | 1,7                                  | 240                                                  | 220                              |
| 74302            | 10 - 17                                     | 0,6                      | 1                                    | 140                                                  | 320                              |
| 74303            | 4.7 - 8                                     | 0,9                      | 0,43                                 | 65                                                   | 480                              |
| 74304            | 2.2 - 3.7                                   | 1,3                      | 0,23                                 | 32                                                   | 740                              |
| 74305            | 1 - 1.7                                     | 1,9                      | 0,1                                  | 14                                                   | 1000                             |

MECHANICAL CHARACTERISTICS / PINOUT :

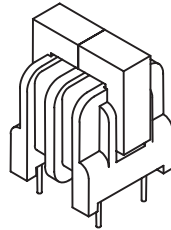


View from pin side  
PCB Drilling diameter 1.1 mm



- Ambient Temperature  $\leq 50^{\circ}\text{C}$
- Dielectric Strength  $\geq 1.5 \text{ kV}$  between windings
- Electrical characteristics at  $25^{\circ}\text{C}$

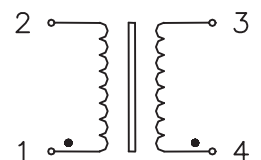
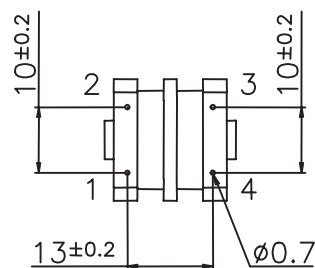
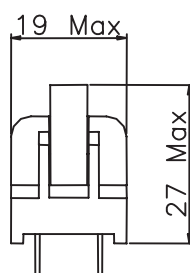
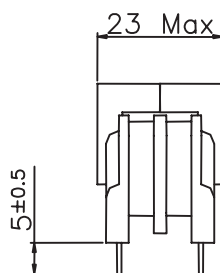
SIZE : U16



### ELECTRICAL CHARACTERISTICS :

| MYRRA<br>Part N° | Inductance<br>Common Mode<br>min - max (mH) | Rated<br>Current<br>Arms | Resistance<br>per winding<br>ohm max | Inductance<br>Differential Mode<br>$\mu\text{H}$ min | Resonant<br>Frequency<br>kHz min |
|------------------|---------------------------------------------|--------------------------|--------------------------------------|------------------------------------------------------|----------------------------------|
| 74310            | 22 - 37                                     | 0,75                     | 1                                    | 230                                                  | 170                              |
| 74311            | 15 - 25                                     | 0,9                      | 0,75                                 | 150                                                  | 210                              |
| 74312            | 10 - 17                                     | 1,1                      | 0,44                                 | 100                                                  | 280                              |
| 74313            | 4.7 - 8                                     | 1,5                      | 0,24                                 | 50                                                   | 440                              |
| 74314            | 2.2 - 3.7                                   | 2,3                      | 0,095                                | 20                                                   | 650                              |
| 74315            | 1 - 1.7                                     | 3,3                      | 0,046                                | 10                                                   | 1000                             |

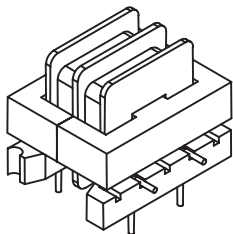
### MECHANICAL CHARACTERISTICS / PINOUT :



View from pin side  
PCB Drilling diameter 1.1 mm

- Ambient Temperature  $\leq 50^{\circ}\text{C}$
- Dielectric Strength  $\geq 1.5\text{ kV}$  between windings
- Electrical characteristics at  $25^{\circ}\text{C}$

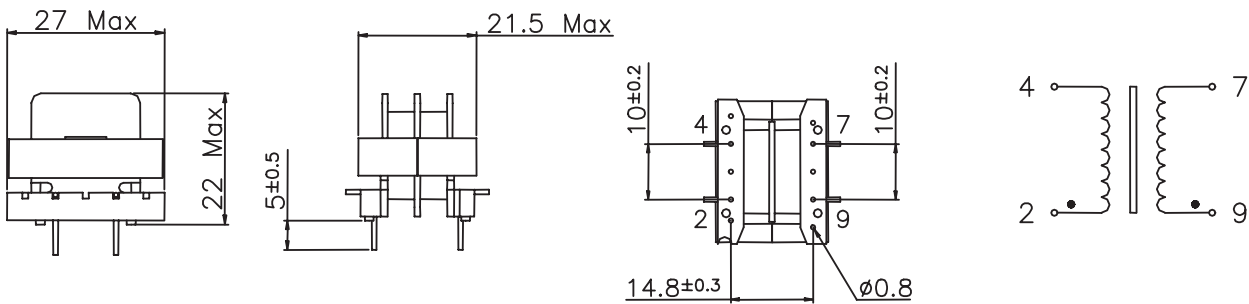
SIZE : E25



ELECTRICAL CHARACTERISTICS :

| MYRRA<br>Part N° | Inductance<br>Common Mode<br>min - max (mH) | Rated<br>Current<br>Arms | Resistance<br>per winding<br>ohm max | Inductance<br>Differential Mode<br>$\mu\text{H}$ min | Resonant<br>Frequency<br>kHz min |
|------------------|---------------------------------------------|--------------------------|--------------------------------------|------------------------------------------------------|----------------------------------|
| 74320            | 22 – 37                                     | 0,9                      | 0,54                                 | 130                                                  | 170                              |
| 74321            | 15 – 25                                     | 1,1                      | 0,35                                 | 90                                                   | 210                              |
| 74322            | 10 - 17                                     | 1,3                      | 0,22                                 | 50                                                   | 270                              |
| 74323            | 4.7 - 8                                     | 1,8                      | 0,105                                | 25                                                   | 400                              |
| 74324            | 2.2 - 3.7                                   | 2,7                      | 0,05                                 | 11                                                   | 630                              |
| 74325            | 1 - 1.7                                     | 4                        | 0,03                                 | 7                                                    | 950                              |

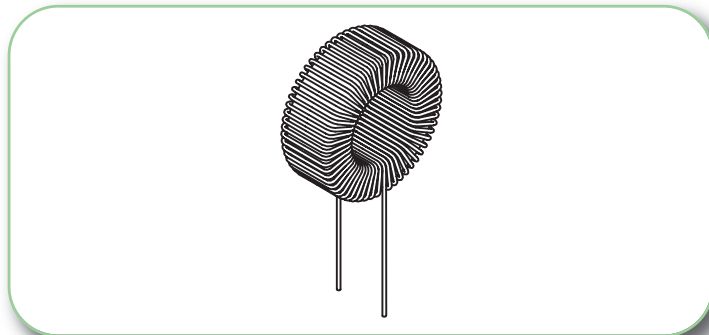
MECHANICAL CHARACTERISTICS / PINOUT :



View from pin side  
PCB Drilling diameter 1.2 mm



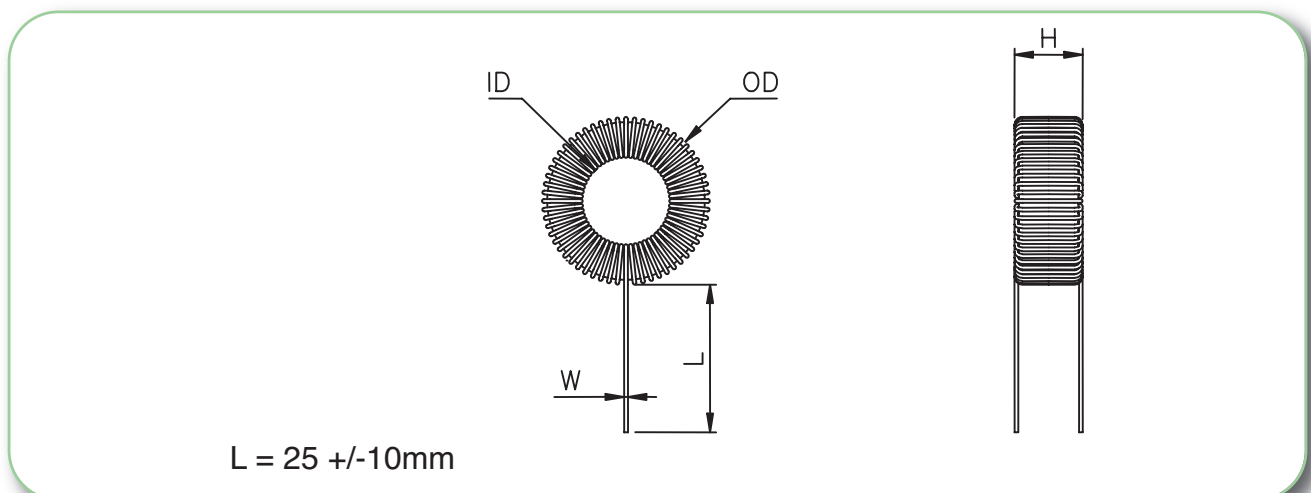
- For noise suppression in light dimmers
- Saturable chokes : provides a high impedance for Triac switching interferences, and a low impedance for 50Hz component.
- Electrical characteristics at 25 °

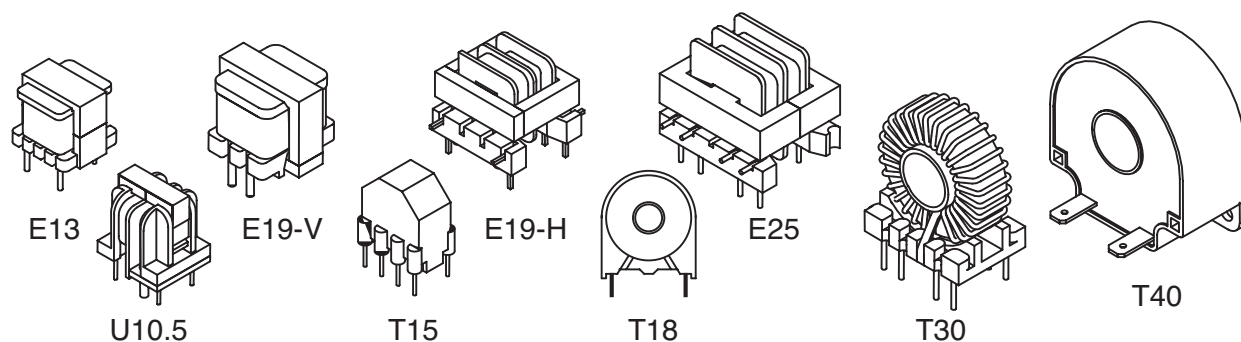


#### ELECTRICAL CHARACTERISTICS :

| MYRRA<br>Part N° | Power  | Inductance<br>+/- 15 % | Rated<br>Current | Resistance     | Associated<br>Capacitor | Dimensions (mm) |           |          |          | Approx.<br>Weight |
|------------------|--------|------------------------|------------------|----------------|-------------------------|-----------------|-----------|----------|----------|-------------------|
|                  |        |                        |                  |                |                         | OD<br>max       | ID<br>min | H<br>max | W<br>max |                   |
| <b>74190</b>     | 150 w  | 3.5 mH                 | 0.7 Arms         | 1.5 $\Omega$   | 22 nF                   | 24              | 9         | 9.5      | 0.5      | 13 g              |
| <b>74191</b>     | 300 w  | 2.8 mH                 | 1.3 Arms         | 0.73 $\Omega$  | 47 nF                   | 29              | 10        | 12       | 0.7      | 24 g              |
| <b>74192</b>     | 500 w  | 2.0 mH                 | 2.2 Arms         | 0.35 $\Omega$  | 82 nF                   | 32.5            | 9         | 16       | 0.9      | 47 g              |
| <b>74196</b>     | 500 w  | 1.8 mH                 | 2.2 Arms         | 0.37 $\Omega$  | 82 nF                   | 38              | 14        | 12       | 0.9      | 39 g              |
| <b>74193</b>     | 1000 w | 1.3 mH                 | 4.5 Arms         | 0.15 $\Omega$  | 220 nF                  | 44              | 14        | 16.5     | 1.2      | 80 g              |
| <b>74194</b>     | 2200 w | 450 $\mu$ H            | 10 Arms          | 0.04 $\Omega$  | 470 nF                  | 50              | 12        | 22.5     | 1.8      | 140 g             |
| <b>74195</b>     | 4500 w | 250 $\mu$ H            | 20 Arms          | 0.014 $\Omega$ | 1 $\mu$ F               | 58              | 10        | 28       | 2.5      | 250 g             |

#### MECHANICAL CHARACTERISTICS :



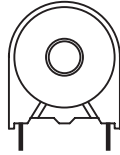


### • FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz

| MYRRA<br>Part N°                      | SIZE       | Ratio              | Current range         |
|---------------------------------------|------------|--------------------|-----------------------|
| <b>PIN PRIMARY - up to 25A</b>        |            |                    |                       |
| <b>74521</b>                          | Size E19-H | Ratio 1 / 1 / 750  | Current 10 A / 20 A   |
| <b>74523</b>                          | Size E19-V | Ratio 1 / 500      | Current 15 A          |
| <b>74531</b>                          | Size E25   | Ratio 1 / 1 / 1000 | Current 12.5 A / 25 A |
| <b>74533</b>                          | Size E25   | Ratio 1 / 1000     | Current 8 A           |
| <b>74534</b>                          | Size E25   | Ratio 1 / 350      | Current 4 A           |
| <b>74561</b>                          | Size U10.5 | Ratio 1 / 2000     | Current 8 A           |
| <b>THRU-HOLE PRIMARY - up to 250A</b> |            |                    |                       |
| <b>74503</b>                          | Size T18   | Ratio 1 / 1000     | Current 12 A          |
| <b>74504</b>                          | Size T18   | Ratio 1 / 750      | Current 10 A          |
| <b>74511</b>                          | Size T30   | Ratio 1 / 1000     | Current 60 A          |
| <b>74543, 74544, 74545</b>            | Size T40   | Ratio 1 / 500      | Current 100 A         |
| <b>74546, 74547, 74548</b>            | Size T40   | Ratio 1 / 1000     | Current 250 A         |

### • FOR SWITCH MODE POWER SUPPLIES - 20 to 150kHz

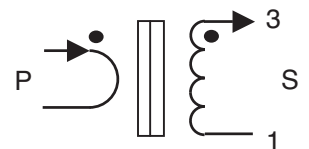
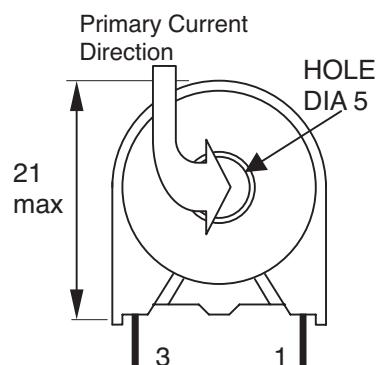
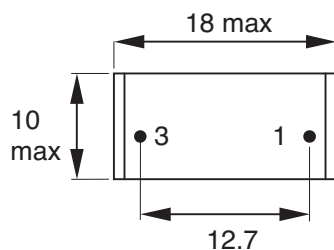
| MYRRA<br>Part N°                      | SIZE       | Ratio             | Current range         |
|---------------------------------------|------------|-------------------|-----------------------|
| <b>PIN PRIMARY - up to 25A</b>        |            |                   |                       |
| <b>74520</b>                          | Size E19-H | Ratio 1 / 1 / 100 | Current 10 A / 20 A   |
| <b>74530</b>                          | Size E25   | Ratio 1 / 1 / 100 | Current 12.5 A / 25 A |
| <b>74550</b>                          | Size E13   | Ratio 1 / 100     | Current 10 A          |
| <b>74560</b>                          | Size U10.5 | Ratio 1 / 100     | Current 10 A          |
| <b>74562</b>                          | Size U10.5 | Ratio 1 / 100     | Current 10 A          |
| <b>74570</b>                          | Size T15   | Ratio 1 / 1 / 50  | Current 10 A / 20 A   |
| <b>THRU-HOLE PRIMARY - up to 200A</b> |            |                   |                       |
| <b>74500</b>                          | Size T18   | Ratio 1 / 50      | Current 15 A          |
| <b>74501</b>                          | Size T18   | Ratio 1 / 100     | Current 25 A          |
| <b>74502</b>                          | Size T18   | Ratio 1 / 200     | Current 25 A          |
| <b>74510</b>                          | Size T30   | Ratio 1 / 100     | Current 150 A         |
| <b>74540, 74541, 74542</b>            | Size T40   | Ratio 1 / 100     | Current 200 A         |

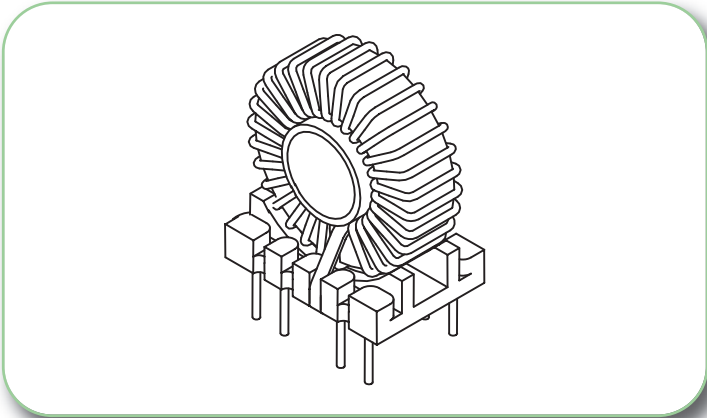


| MYRRA<br>Part N° | Sec.<br>Turns | Max Pri.<br>Current<br>A rms | Rsec.<br>$\Omega$<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t max<br>@ Frequency | Sine<br>Vsec max<br>@ Frequency      | Typical Load/<br>Accuracy/ Current                          |
|------------------|---------------|------------------------------|--------------------------|--------------------|--------------------------------------|--------------------------------------|-------------------------------------------------------------|
| 74500            | 50            | 15 A                         | 6 $\Omega$               | 5                  | 175 V $\mu$ S<br>20 – 200 kHz        | 15 V<br>20 – 200 kHz                 | 50 $\Omega$ / 1% / 15 A                                     |
| 74501            | 100           | 25 A                         | 1.5 $\Omega$             | 20                 | 350 V $\mu$ S<br>20 – 100 kHz        | 25 V<br>20 – 100 kHz                 | 100 $\Omega$ / 1% / 25 A                                    |
| 74502            | 200           | 25 A                         | 5 $\Omega$               | 80                 | 700 V $\mu$ S<br>20 – 100 kHz        | 50 V<br>20 – 100 kHz                 | 200 $\Omega$ / 1% / 25 A                                    |
| 74503            | 1000          | 12 A                         | 45 $\Omega$              | 2000               | 2.5 V.ms<br>50 Hz                    | 0.15V/ 50 Hz/ 12A<br>0.6V/ 50 Hz/ 8A | $\leq 10 \Omega$ / 2% / 12 A<br>$\leq 40 \Omega$ / 2% / 8 A |
| 74504            | 750           | 10 A                         | 35 $\Omega$              | 1100               | 2.0 V.ms<br>50 Hz                    | 0.13V/ 50 Hz/ 10A<br>0.3V/ 50 Hz/ 5A | $\leq 10 \Omega$ / 2% / 10 A<br>$\leq 40 \Omega$ / 2% / 5 A |

Data applies for one primary turn (single passage of primary wire through toroid hole).  
Sensitivity can be increased for lower currents by winding more than one turn.

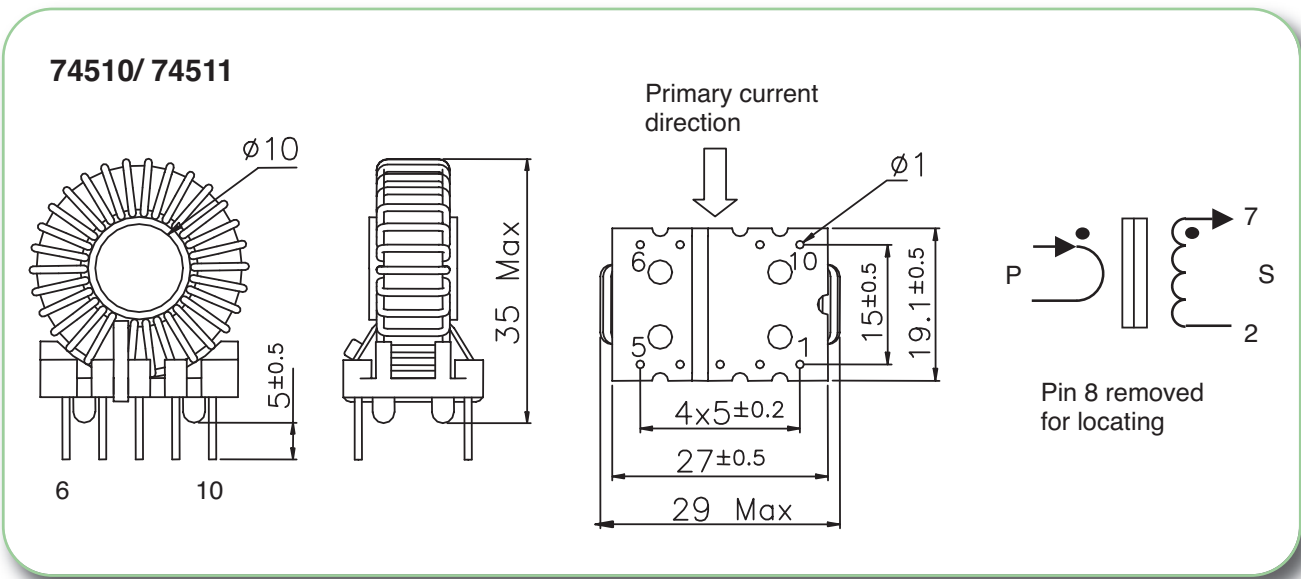
#### 74500 / 74501 / 74502 74503 / 74504

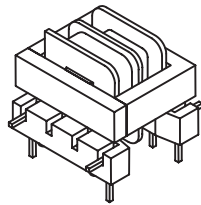




| MYRRA<br>Part N° | Sec.<br>Turns | Max Pri.<br>Current<br>A rms | Rsec.<br>Ω<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t max<br>@ Frequency   | Sine<br>Vsec max<br>@ Frequency        | Typical Load/<br>Accuracy/ Current       |
|------------------|---------------|------------------------------|-------------------|--------------------|----------------------------------------|----------------------------------------|------------------------------------------|
| 74510            | 100           | 150 A                        | 0.25Ω             | 40                 | 1 V.ms/ 20 kHz<br>700 V μs/<br>100 kHz | 50 V/ 20 kHz<br>80 V/ 100 kHz          | 1 - 20 Ω / 1%                            |
| 74511            | 1000          | 60 A                         | 32 Ω              | 4000               | 10 V.ms/ 50 Hz                         | 0.6 V/ 50 Hz/ 60 A<br>1 V/ 50 Hz/ 40 A | ≤ 10 Ω / 1% / 60 A<br>≤ 20 Ω / 1% / 40 A |

Data applies for one primary turn (single passage of primary wire through toroid hole).  
Sensitivity can be increased for lower currents by winding more than one turn.  
Models with 50, 100, 200 turns are designed for switch-mode power conversion (up to 200 kHz).  
Models with 500 and 1000 turns are designed for Mains current measurement (50 to 400 Hz).





#### FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz

| MYRRA<br>Part N° | Ratio   | Max Pri.<br>Current<br>A rms | Rsec.<br>$\Omega$<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t<br>max | Sine<br>Vsec<br>rms max | Typical Load/<br>Accuracy/ Current | Insulation<br>Voltage<br>P/ S |
|------------------|---------|------------------------------|--------------------------|--------------------|--------------------------|-------------------------|------------------------------------|-------------------------------|
| <b>74520</b>     | 1/1/100 | 20 A parallel<br>10 A serie  | 1.5                      | 8                  | 400 V. $\mu$ s           | 50 Vrms                 | 10 – 100 $\Omega$ / 1% / 10 A      | 2500 V                        |

#### FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz

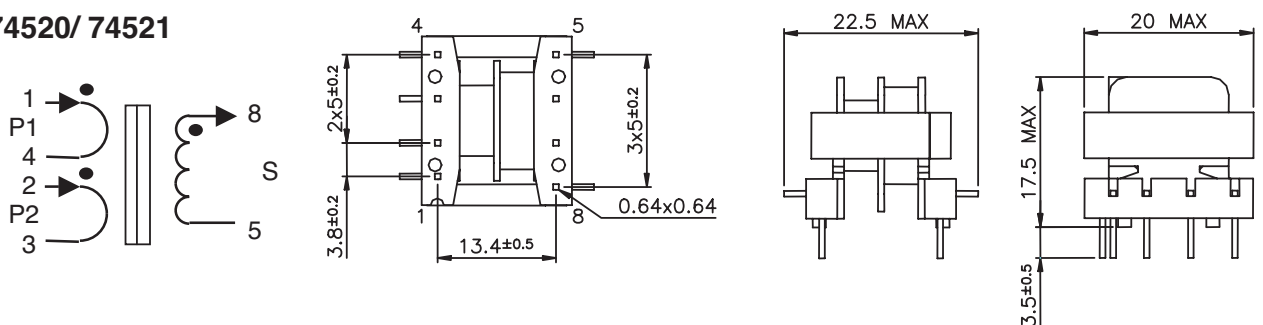
| MYRRA<br>Part N° | Ratio   | Max Pri.<br>Current<br>A rms | Rsec.<br>$\Omega$<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t<br>max | Sine<br>Vsec<br>rms max | Typical Load/<br>Accuracy/ Current | Insulation<br>Voltage<br>P/ S |
|------------------|---------|------------------------------|--------------------------|--------------------|--------------------------|-------------------------|------------------------------------|-------------------------------|
| <b>74521</b>     | 1/1/750 | 20 A parallel<br>10 A serie  | 57                       | 300                | 15 V.ms                  | 3 Vrms                  | $\leq 75 \Omega$ / 4% / 20 A       | 2500 V                        |

#### SAFETY :

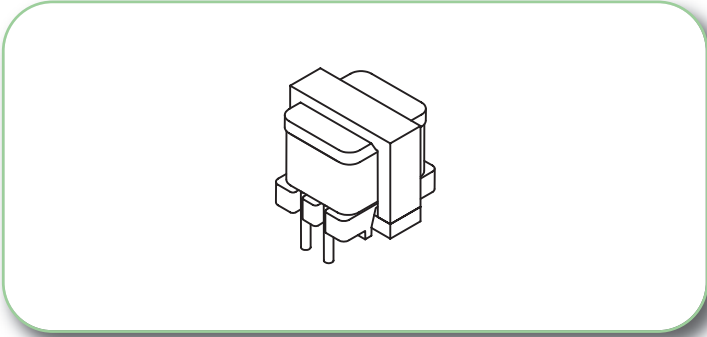
These products are only composed of UL approved materials.

These products have a construction conform to CEI950, CEI335, CEI61558 for Basic insulation (3 mm creepage distance)

#### 74520/ 74521



Pins 6 & 7 removed for locating  
PCB drill @  $\varnothing$  1.3 mm

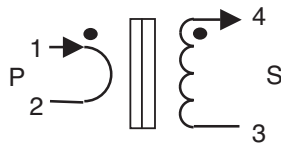


| FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz |        |                              |                   |                    |                          |                         |                                           |                               |
|-------------------------------------------------|--------|------------------------------|-------------------|--------------------|--------------------------|-------------------------|-------------------------------------------|-------------------------------|
| MYRRA<br>Part N°                                | Ratio  | Max Pri.<br>Current<br>A rms | Rsec.<br>Ω<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t<br>max | Sine<br>Vsec<br>rms max | Typical Load/<br>Accuracy/ Current        | Insulation<br>Voltage<br>P/ S |
| 74523                                           | 1/ 500 | 15 A                         | 155               | 670                | 30 V.ms                  | 6 Vrms                  | ≤ 50 Ω / 2% / 15 A<br>≤ 200 Ω / 5% / 10 A | 1500 V                        |

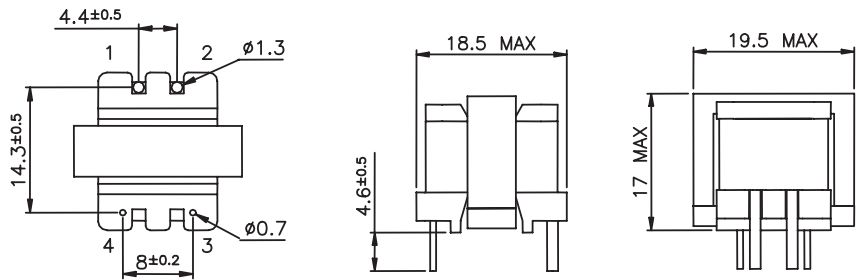
**SAFETY :**

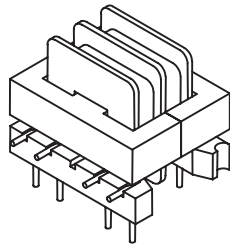
This product is only composed of UL approved materials.  
This product has a construction conform to CEI950, CEI335, CEI61558 for Functional insulation

**74523**



Pins 6 & 7 removed for locating  
PCB drill @ Ø 1.2 & 1.8 mm





#### FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz

| MYRRA<br>Part N° | Ratio   | Max Pri.<br>Current<br>A rms  | Rsec.<br>$\Omega$<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t<br>max | Sine<br>Vsec<br>rms max | Typical Load/<br>Accuracy/ Current | Insulation<br>Voltage<br>P/ S |
|------------------|---------|-------------------------------|--------------------------|--------------------|--------------------------|-------------------------|------------------------------------|-------------------------------|
| <b>74530</b>     | 1/1/100 | 25 A parallel<br>12.5 A serie | 1                        | 10                 | 600 V. $\mu$ s           | 80 Vrms                 | 10 - 100 $\Omega$ / 1% / 25 A      | 2500 V                        |

#### FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz

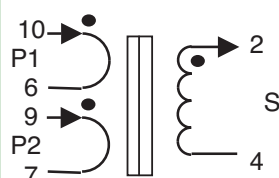
| MYRRA<br>Part N° | Ratio    | Max Pri.<br>Current<br>A rms  | Rsec.<br>$\Omega$<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t<br>max | Sine<br>Vsec<br>rms max | Typical Load/<br>Accuracy/ Current                             | Insulation<br>Voltage<br>P/ S |
|------------------|----------|-------------------------------|--------------------------|--------------------|--------------------------|-------------------------|----------------------------------------------------------------|-------------------------------|
| <b>74531</b>     | 1/1/1000 | 25 A parallel<br>12.5 A serie | 90                       | 4 H                | 8 V.ms                   | 1.6 Vrms                | $\leq 50 \Omega$ / 2% / 20 A                                   | 2500 V                        |
| <b>74533</b>     | 1/ 1000  | 8 A                           | 360                      | 17 H               | 15 V.ms                  | 3 Vrms                  | $\leq 200 \Omega$ / 1% / 8 A<br>$\leq 500 \Omega$ / 1.5% / 5 A | 2500 V                        |
| <b>74534</b>     | 1/ 350   | 4 A                           | 380                      | 19 H               | 15 V.ms                  | 3 Vrms                  | $\leq 100 \Omega$ / 1% / 4 A<br>$\leq 500 \Omega$ / 1% / 2 A   | 2500 V                        |

#### SAFETY :

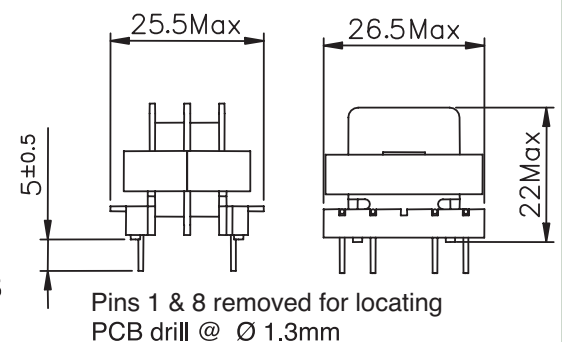
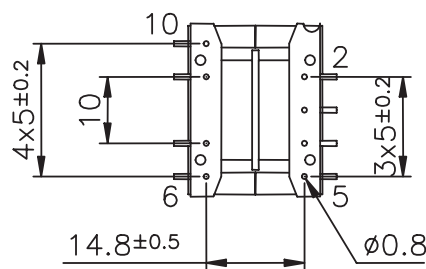
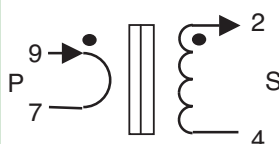
These products are only composed of UL approved materials.

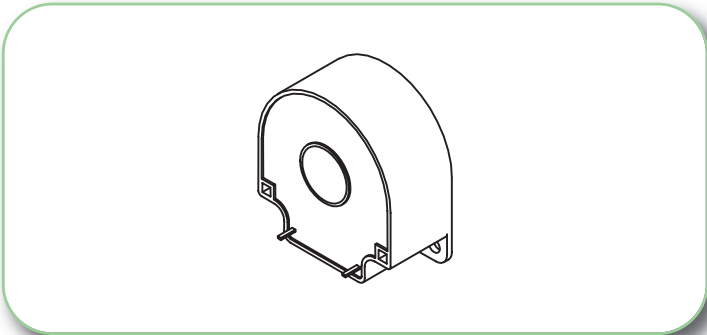
These products have a construction conform to CEI950, CEI335, CEI61558 for Basic insulation (3 mm creepage distance)

#### 74530/ 74531



#### 74533/ 74534

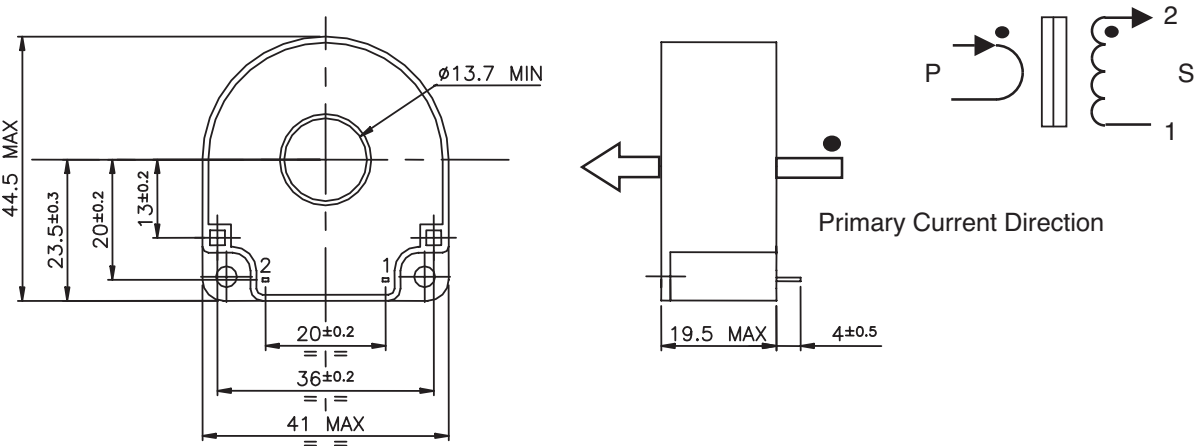


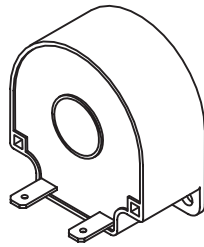


| MYRRA<br>Part N° | Sec.<br>Turns | Max Pri.<br>Current<br>A rms | Rsec.<br>Ω<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t max<br>@ Frequency | Sine<br>Vsec max<br>@ Frequency         | Typical Load/<br>Accuracy/ Current       |
|------------------|---------------|------------------------------|-------------------|--------------------|--------------------------------------|-----------------------------------------|------------------------------------------|
| 74540            | 100           | 200 A                        | 0.35Ω             | 50                 | 2 V.ms/ 20 kHz<br>1 V.ms/ 100 kHz    | 150 V/ 20 kHz<br>150 V/ 100 kHz         | 1..20 Ω / 1%                             |
| 74543            | 500           | 100 A                        | 6.5 Ω             | 1250               | 10 V.ms/ 50 Hz                       | 0.7 V/ 50Hz/ 100 A<br>1.2 V/ 50Hz/ 60 A | ≤ 3 Ω / 1% / 100 A<br>≤ 10 Ω / 1% / 60 A |
| 74546            | 1000          | 250 A                        | 22 Ω              | 8000               | 100 V.ms/ 50 Hz                      | 15 V/ 50 Hz/ 250 A                      | ≤ 50 Ω / 1% / 250 A                      |

Data applies for one primary turn (single passage of primary wire through toroid hole).  
Sensitivity can be increased for lower currents by winding more than one turn.

74540/ 74543/ 74546 Pin type (for PCB) □ 0.6 x 0.95

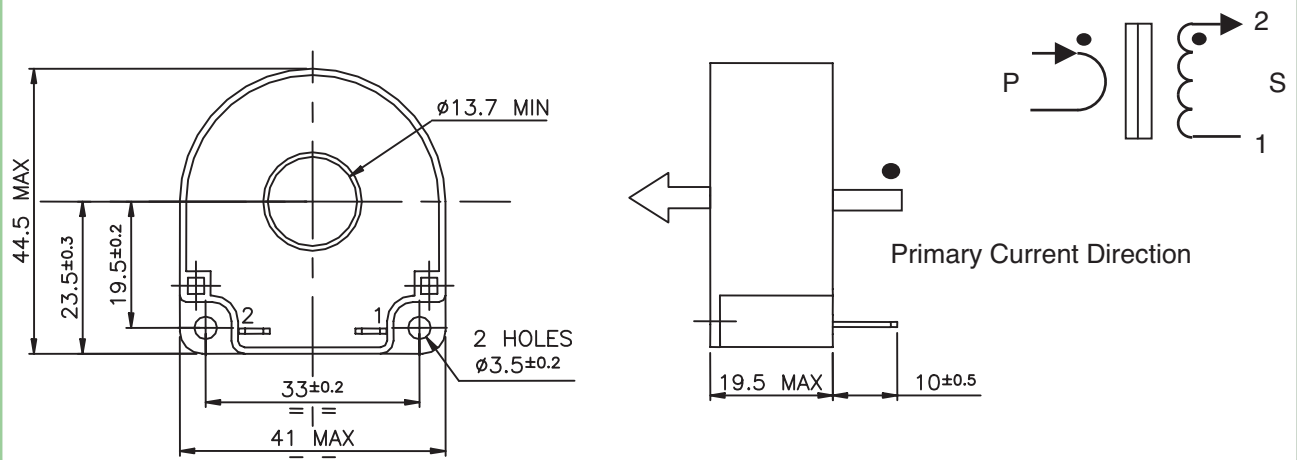


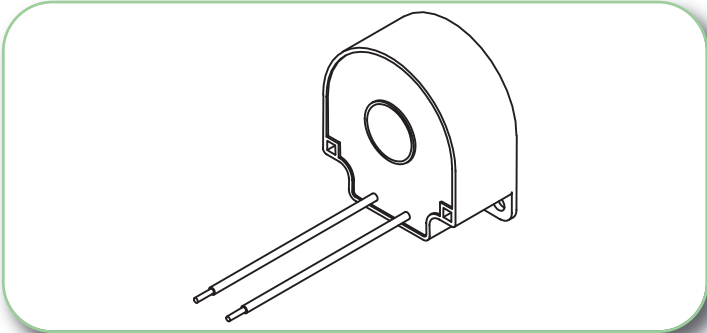


| MYRRA Part N° | Sec. Turns | Max Pri. Current A rms | Rsec. $\Omega$ max | Lsec. mH min | Pulse Vsec x t max @ Frequency    | Sine Vsec max @ Frequency               | Typical Load/ Accuracy/ Current                              |
|---------------|------------|------------------------|--------------------|--------------|-----------------------------------|-----------------------------------------|--------------------------------------------------------------|
| <b>74541</b>  | 100        | 200 A                  | 0.35 $\Omega$      | 50           | 2 V.ms/ 20 kHz<br>1 V.ms/ 100 kHz | 150 V/ 20 kHz<br>150 V/ 100 kHz         | 1..20 $\Omega$ / 1%                                          |
| <b>74544</b>  | 500        | 100 A                  | 6.5 $\Omega$       | 1250         | 10 V.ms/ 50 Hz                    | 0.7 V/ 50Hz/ 100 A<br>1.2 V/ 50Hz/ 60 A | $\leq 3 \Omega$ / 1% / 100 A<br>$\leq 10 \Omega$ / 1% / 60 A |
| <b>74547</b>  | 1000       | 250 A                  | 22 $\Omega$        | 8000         | 100 V.ms/ 50 Hz                   | 15 V/ 50 Hz/ 250 A                      | $\leq 50 \Omega$ / 1% / 250 A                                |

Data applies for one primary turn (single passage of primary wire through toroid hole). Sensitivity can be increased for lower currents by winding more than one turn.

#### 74541/ 74544/ 74547 FASTON Connectors (4.8 x 0.8)

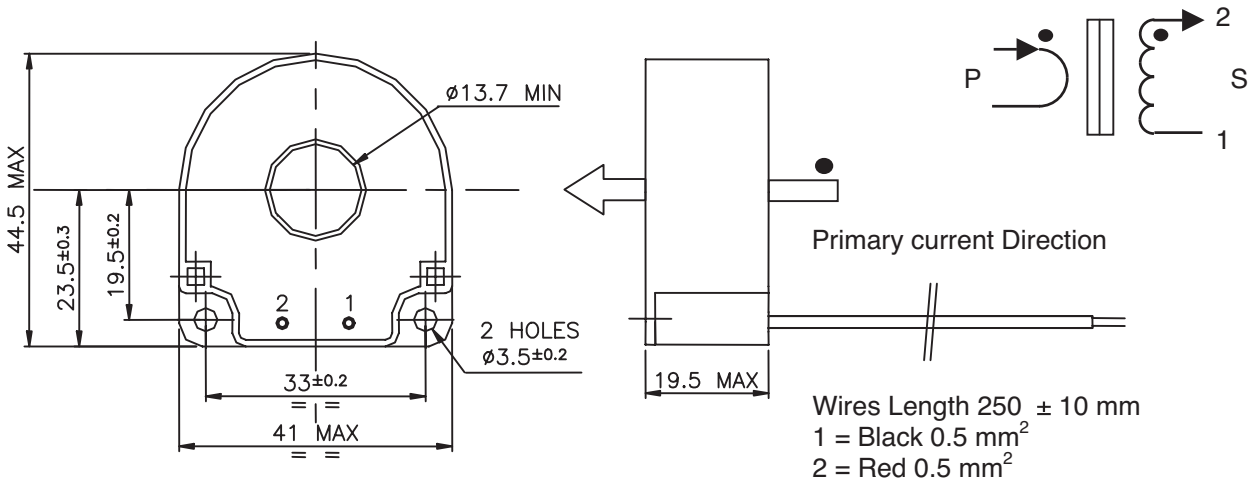


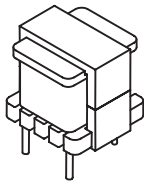


| MYRRA<br>Part N° | Sec.<br>Turns | Max Pri.<br>Current<br>A rms | Rsec.<br>Ω<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t max<br>@ Frequency | Sine<br>Vsec max<br>@ Frequency         | Typical Load/<br>Accuracy/ Current       |
|------------------|---------------|------------------------------|-------------------|--------------------|--------------------------------------|-----------------------------------------|------------------------------------------|
| 74542            | 100           | 200 A                        | 0.35Ω             | 50                 | 2 V.ms/ 20 kHz<br>1 V.ms/ 100 kHz    | 150 V/ 20 kHz<br>150 V/ 100 kHz         | 1..20 Ω / 1%                             |
| 74545            | 500           | 100 A                        | 6.5 Ω             | 1250               | 10 V.ms/ 50 Hz                       | 0.7 V/ 50Hz/ 100 A<br>1.2 V/ 50Hz/ 60 A | ≤ 3 Ω / 1% / 100 A<br>≤ 10 Ω / 1% / 60 A |
| 74548            | 1000          | 250 A                        | 22 Ω              | 8000               | 100 V.ms/ 50 Hz                      | 15 V/ 50 Hz/ 250 A                      | ≤ 50 Ω / 1% / 250 A                      |

Data applies for one primary turn (single passage of primary wire through toroid hole).  
Sensitivity can be increased for lower currents by winding more than one turn.

74542/ 74545/ 74548    Wires type



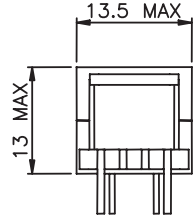
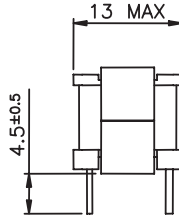
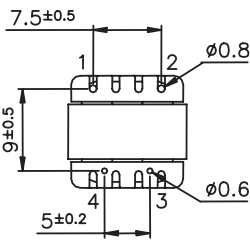
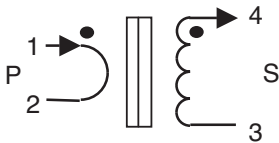


| FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz |        |                              |                   |                    |                          |                         |                                    |                               |
|------------------------------------------------|--------|------------------------------|-------------------|--------------------|--------------------------|-------------------------|------------------------------------|-------------------------------|
| MYRRA<br>Part N°                               | Ratio  | Max Pri.<br>Current<br>A rms | Rsec.<br>Ω<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t<br>max | Sine<br>Vsec<br>rms max | Typical Load/<br>Accuracy/ Current | Insulation<br>Voltage<br>P/ S |
| 74550                                          | 1/ 100 | 10                           | 2.3               | 6                  | 250 V.µs                 | 40 Vrms                 | 10 – 100 Ω / 1% / 10 A             | 1500 V                        |

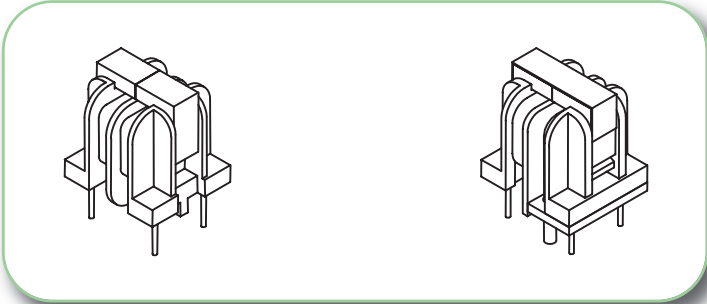
**SAFETY :**

This product is only composed of UL approved materials.  
This product has a construction conform to CEI950, CEI335, CEI61558 for functional insulation

**74550**



PCB drill @ Ø 1 & 1.3 mm



| FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz |        |                        |             |              |                    |                   |                                 |                         |
|------------------------------------------------|--------|------------------------|-------------|--------------|--------------------|-------------------|---------------------------------|-------------------------|
| MYRRA Part N°                                  | Ratio  | Max Pri. Current A rms | Rsec. Ω max | Lsec. mH min | Pulse Vsec x t max | Sine Vsec rms max | Typical Load/ Accuracy/ Current | Insulation Voltage P/ S |
| 74560                                          | 1/ 100 | 10                     | 1.1         | 12           | 300 V.µs           | 25 Vrms           | 5 – 50 Ω / 1% / 10 A            | 4000 V                  |
| 74562                                          | 1/ 100 | 25                     | 1.1         | 12           | 300 V.µs           | 25 Vrms           | 5 – 50 Ω / 1% / 25 A            | 4000 V                  |

| FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz |         |                        |             |              |                    |                   |                                 |                         |
|-------------------------------------------------|---------|------------------------|-------------|--------------|--------------------|-------------------|---------------------------------|-------------------------|
| MYRRA Part N°                                   | Ratio   | Max Pri. Current A rms | Rsec. Ω max | Lsec. mH min | Pulse Vsec x t max | Sine Vsec rms max | Typical Load/ Accuracy/ Current | Insulation Voltage P/ S |
| 74561                                           | 1/ 2000 | 8 A                    | 400         | 4.5 H        | 5 V.ms             | 1 Vrms            | ≤ 100 Ω / 2% / 6 A              | 4000 V                  |

SAFETY :

These products are only composed of UL approved materials.

These products have a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation

74560, 74561 : 8 mm creepage distance

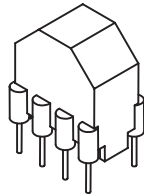
74562 : 6 mm creepage distance

74560/ 74561

PCB drill @ Ø 1.1 & 2.2 mm

74562

PCB drill @ Ø 1.1 & 2.2 mm



#### FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz

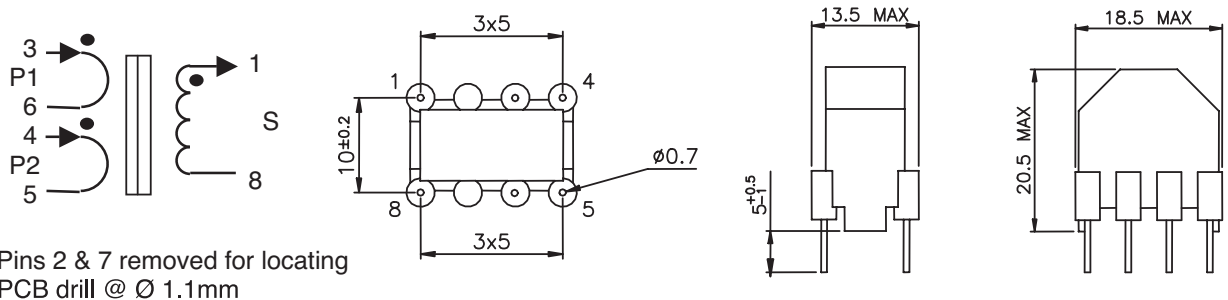
| MYRRA<br>Part N° | Ratio  | Max Pri.<br>Current<br>A rms | Rsec.<br>$\Omega$<br>max | Lsec.<br>mH<br>min | Pulse<br>Vsec x t<br>max | Sine<br>Vsec<br>rms max | Typical Load/<br>Accuracy/ Current | Insulation<br>Voltage<br>P/ S |
|------------------|--------|------------------------------|--------------------------|--------------------|--------------------------|-------------------------|------------------------------------|-------------------------------|
| <b>74570</b>     | 1/1/50 | 20 A parallel<br>10 A serie  | 0.32                     | 9                  | 150 V. $\mu$ s           | 12 Vrms                 | 5 – 25 $\Omega$ / 1% / 20 A        | 4000 V                        |

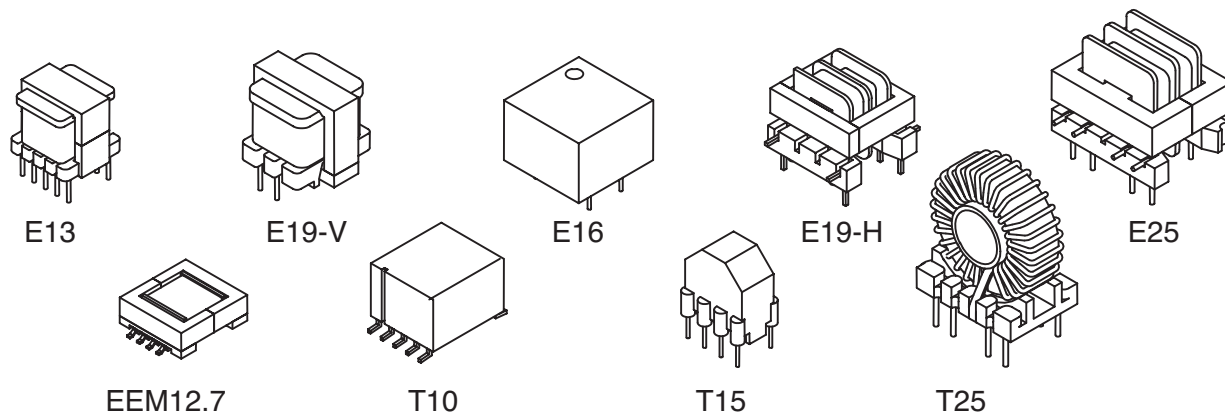
#### SAFETY :

This product is only composed of UL approved materials.

This product has a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation (8 mm creepage distance)

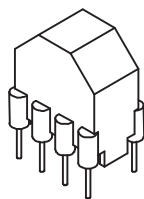
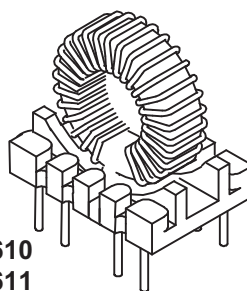
#### 74570





To be used for MOSFET or IGBT Drive, SCR triggering, DC/DC power conversion, Voltage isolation.

| MYRRA<br>Part N° | SIZE         | Ratio             |                           |
|------------------|--------------|-------------------|---------------------------|
| <b>74600</b>     | Size T15     | Ratio 1 / 1 / 1   | Low stray inductance      |
| <b>74610</b>     | Size T25     | Ratio 1 / 1 / 1   | Low stray inductance      |
| <b>74611</b>     | Size T25     | Ratio 1 / 1 / 1   | Low stray inductance      |
| <b>74620</b>     | Size E19-H   | Ratio 1 / 1 / 1   | Low coupling capacitance  |
| <b>74621</b>     | Size E19-H   | Ratio 3 / 1 / 1   | Low coupling capacitance  |
| <b>74630</b>     | Size E25     | Ratio 1 / 1 / 1   | Low coupling capacitance  |
| <b>74631</b>     | Size E25     | Ratio 3 / 1 / 1   | Low coupling capacitance  |
| <b>74640</b>     | Size E19-V   | Ratio 1 / 5       | For voltage step-up       |
| <b>74641</b>     | Size E19-V   | Ratio 1 / 10      | For voltage step-up       |
| <b>74650</b>     | Size E13     | Ratio 1 / 1 / 1   | Small size                |
| <b>74710</b>     | Size E16     | Ratio 1 / 1       | Low coupling capacitance  |
| <b>74660</b>     | Size EEM12.7 | Ratio 1CT / 1.3CT | SMD                       |
| <b>74661</b>     | Size EEM12.7 | Ratio 1CT / 1CT   | SMD, for DC/DC converter  |
| <b>74670</b>     | Size T10     | Ratio 1CT / 1.3   | SMD, Low stray inductance |

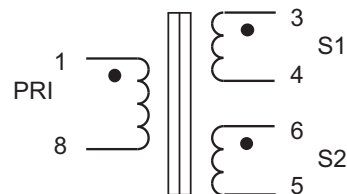
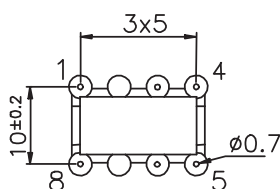
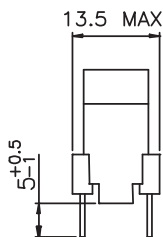
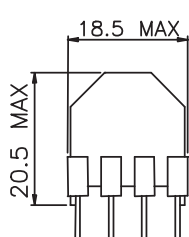
**74600****74610  
74611**

| MYRRA<br>Part N° | Ratio<br>P/S1/S2 | L pri.<br>+/-30% | Current<br>/ winding<br>Arms max | Resistance<br>/ winding<br>$\Omega$ max | Pulse<br>E x t<br>V.μs max | square<br>V / kHz<br>max | C<br>P/S<br>pF max | Lleak<br>P/S<br>μH max | Insulation<br>Voltage |       |
|------------------|------------------|------------------|----------------------------------|-----------------------------------------|----------------------------|--------------------------|--------------------|------------------------|-----------------------|-------|
|                  |                  |                  |                                  |                                         |                            |                          |                    |                        | P/S                   | S1/S2 |
| <b>74600</b>     | 1 / 1 / 1        | 4 – 8            | 0.6                              | 0.35                                    | 150 V.μs                   | 0.4                      | 120 pF             | 1.0 μH                 | 4 kV                  | 4 kV  |
| <b>74610</b>     | 1 / 1 / 1        | 0.6 – 1.2        | 1.7                              | 0.07                                    | 150 V.μs                   | 0.4                      | 35 pF              | 0.6 μH                 | 4 kV                  | 4 kV  |
| <b>74611</b>     | 1 / 1 / 1        | 2.5 - 5          | 1.2                              | 0.14                                    | 300 V.μs                   | 0.8                      | 90 pF              | 1.2 μH                 | 4 kV                  | 4 kV  |

- Toroid core gives best coupling, lowest leakage inductance, fast rise time.
- Pulse (E.t rating) is given for bipolar (symmetrical) pulse. Value is reduced for unipolar pulse.

**SAFETY :**

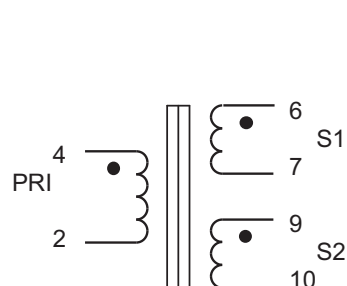
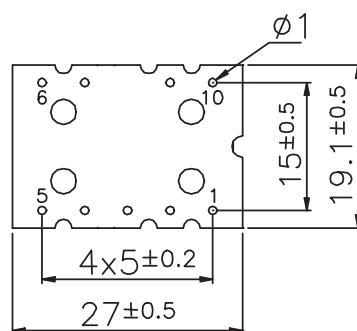
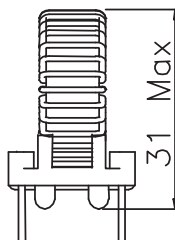
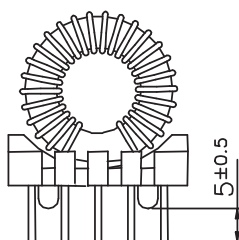
- These products are only composed of UL-V0 approved materials.
- Insulation test voltage : 4000 Vrms
- This product has a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation (8 mm creepage distance)

**74600 Size T15**

Pins 2 &amp; 7 removed for locating

PCB drill @ Ø 1.1mm

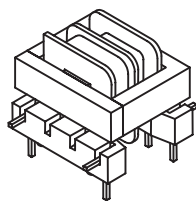
Weight ≈ 6 g

**74610 - 74611 Size T25**

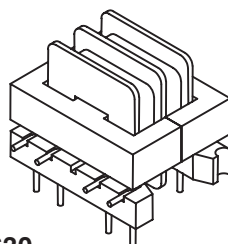
Pin 8 removed for locating

PCB drill @ Ø 1.3mm

Weight ≈ 18 g



74620  
74621



74630  
74631

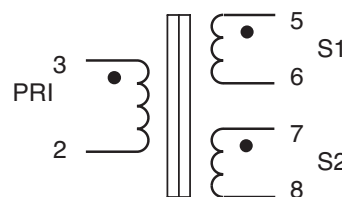
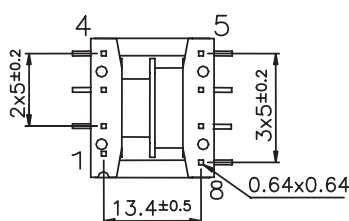
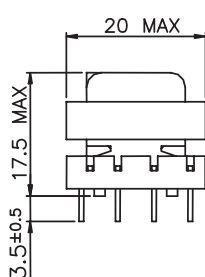
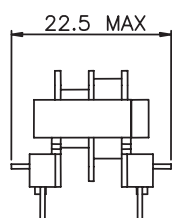
| MYRRA<br>Part N° | Ratio<br>P/S1/S2 | L pri.<br>+/-30% | Current<br>/ winding<br>Arms max | Resistance<br>/ winding<br>Ω max | Pulse<br>E x t<br>V.µs max | square<br>V / kHz<br>max | C<br>P/S<br>pF max | Lleak<br>P/S<br>max | Insulation<br>Voltage |        |
|------------------|------------------|------------------|----------------------------------|----------------------------------|----------------------------|--------------------------|--------------------|---------------------|-----------------------|--------|
|                  |                  |                  |                                  |                                  |                            |                          |                    |                     | P / S                 | S1/S2  |
| <b>74620</b>     | 1 / 1 / 1        | 3.2 mH           | 0.5                              | 1.0                              | 350 V.µs                   | 0.6                      | 5 pF               | 70 µH               | 2.5 kV                | 1.5 kV |
| <b>74621</b>     | 3 / 1 / 1        | 17 mH            | 0.3                              | 2.0                              | 800 V.µs                   | 1.5                      | 5 pF               | 400 µH              | 2.5 kV                | 1.5 kV |
| <b>74630</b>     | 1 / 1 / 1        | 2 mH             | 1                                | 0.4                              | 500 V.µs                   | 0.8                      | 7 pF               | 60 µH               | 2.5 kV                | 1.5 kV |
| <b>74631</b>     | 3 / 1 / 1        | 10 mH            | 0.45                             | 0.8                              | 1000 V.µs                  | 1.7                      | 7 pF               | 300 µH              | 2.5 kV                | 1.5 kV |

- Principally dedicated to SCR triggering
- Designed for minimum coupling capacitance

### SAFETY :

These products are only composed of UL-V0 approved materials.

**74620 - 74621    Size E19-H**

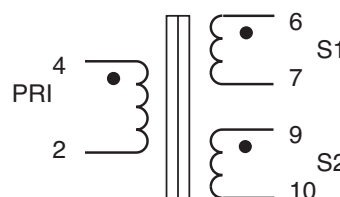
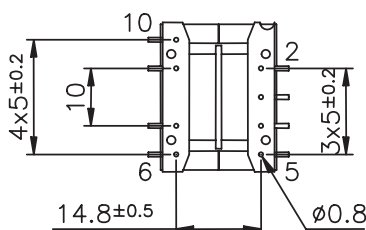
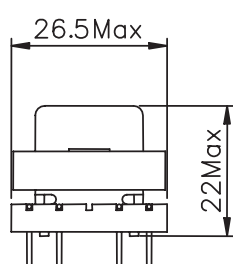
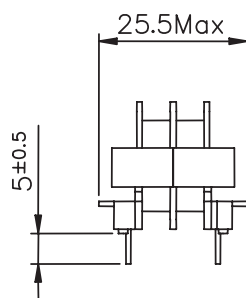


Pin 1 removed for locating

PCB drill @ Ø 1.3mm

Weight  $\approx 12$  g

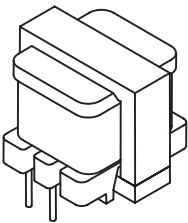
**74630 – 74631    Size E25**



Pins 1 & 8 removed for locating

PCB drill @ Ø 1.3mm

Weight  $\approx 20$  g

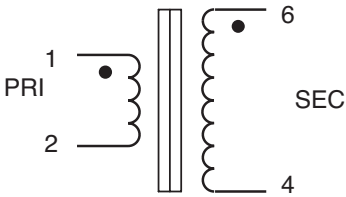
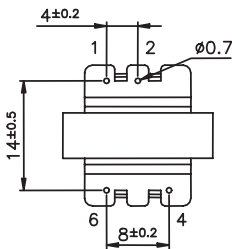
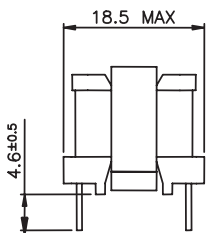
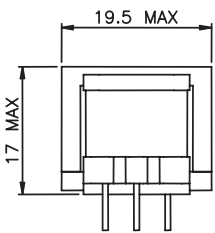


| MYRRA<br>Part N° | Ratio<br>P/S | L pri.<br>+/-30% | Current<br>Arms max     | Resistance<br>$\Omega$ max     | Pulse<br>Vsec . t<br>max | Sine<br>Vsec.<br>max               | Insulation<br>Voltage P/S |
|------------------|--------------|------------------|-------------------------|--------------------------------|--------------------------|------------------------------------|---------------------------|
| 74640            | 1 / 5        | 11 mH            | Pri : 0.5<br>Sec : 0.1  | Pri : 1.0<br>Sec : 31          | 16 V.ms                  | 4 Vrms / 50 Hz<br>50 Vrms / 5 kHz  | 1500                      |
| 74641            | 1 / 10       | 11 mH            | Pri : 0.4<br>Sec : 0.04 | Pri : 1.8<br>Sec : 80 $\Omega$ | 33 V.ms                  | 8 Vrms / 50 Hz<br>100 Vrms / 5 kHz | 1500                      |

**SAFETY :**

- These products are only composed of UL-V0 approved materials.

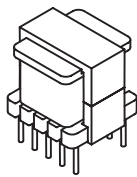
**74640-74641    Size E19-V**



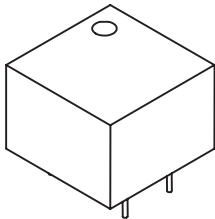
Pins 3 & 5 removed for locating

PCB drill @ Ø 1.1mm

Weight ≈ 14 g



74650



74710

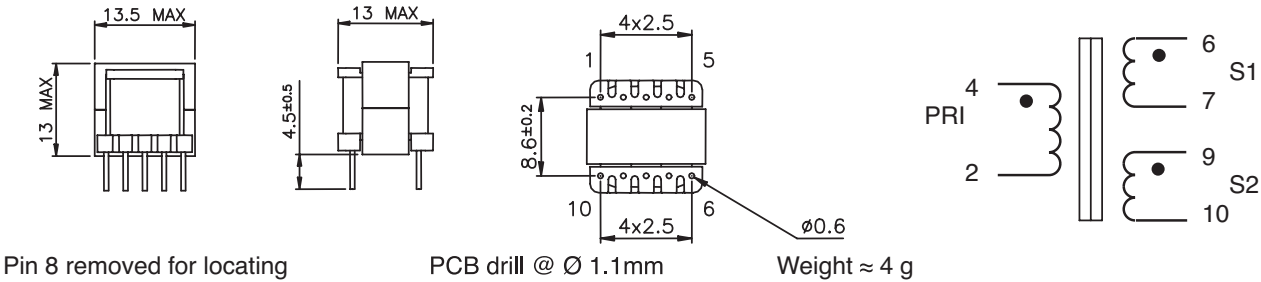
| MYRRA<br>Part N° | Ratio<br>P/S1/S2 | L pri.           | Current<br>/ winding<br>Arms max | Resistance<br>/ winding<br>Ω max | Pulse<br>E x t<br>V.µs max | square<br>V / kHz<br>max | C<br>P/S<br>pF max | Lleak<br>P/S<br>max | Insulation<br>Voltage |        |
|------------------|------------------|------------------|----------------------------------|----------------------------------|----------------------------|--------------------------|--------------------|---------------------|-----------------------|--------|
|                  |                  |                  |                                  |                                  |                            |                          |                    |                     | P/ S                  | S1/S2  |
| 74650            | 1 / 1 / 1        | 500 µH<br>+/-30% | 0.6                              | 0.28                             | 120 V.µs                   | 20V/ 100kHz              | 12 pF              | 2 µH                | 1.5 kV                | 1.5 kV |
| 74710            | 1 / 1            | 2 mH<br>+/-40%   | 0.6                              | 0.6                              | 300 V.µs                   | 50V/ 100kHz              | 6 pF               | 44 µH               | 4 kV                  |        |

- 74650 is principally designed for Mosfet drive in SMPS (Forward or Bridge converters)
- 74710 is principally designed for SCR Triggering

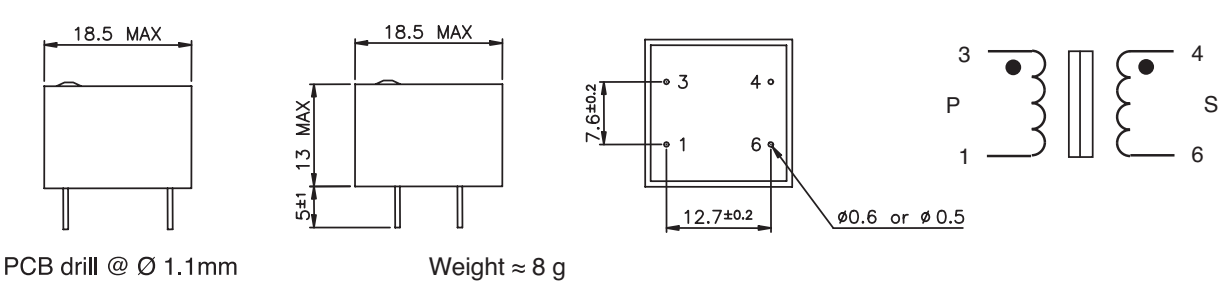
**SAFETY :**

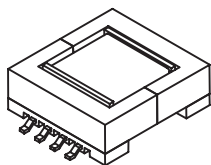
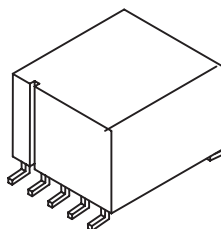
These products are only composed of UL-V0 approved materials.  
The product 74710 has a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation (8 mm creepage distance)

**74650    Size E13**



**74710    Size E16**



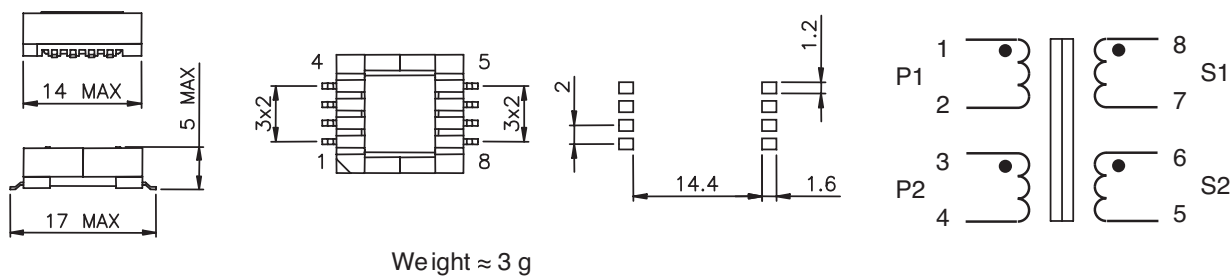
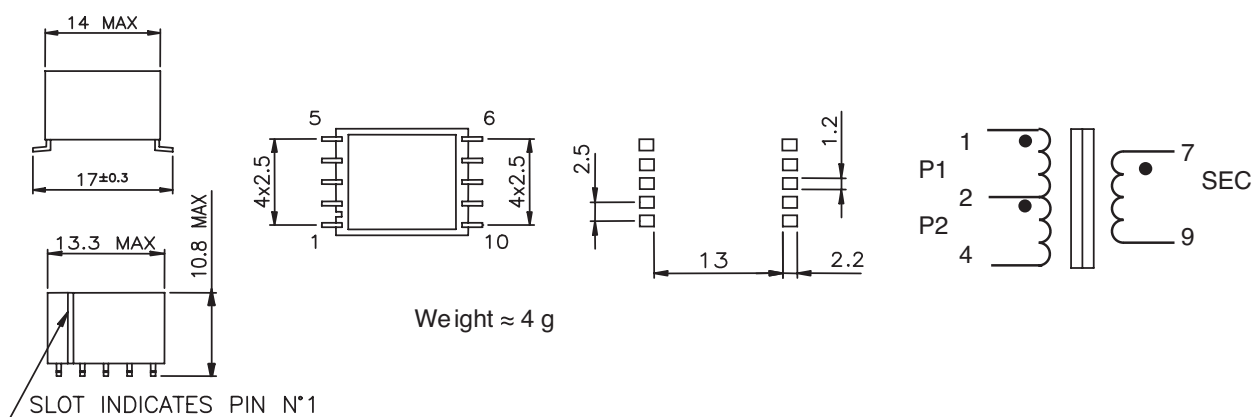
**74660****74670**

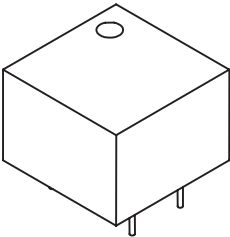
| MYRRA<br>Part N° | Ratio<br>P/S     | L pri.                | Current<br>/ winding<br>max | Resistance<br>/ winding<br>$\Omega$ max | Pulse<br>E x t max<br>P1 or P2 | square<br>V / kHz max<br>P1 or P2 | C<br>P/S<br>pF max | Lleak<br>P/S<br>max | Insulation<br>Voltage |
|------------------|------------------|-----------------------|-----------------------------|-----------------------------------------|--------------------------------|-----------------------------------|--------------------|---------------------|-----------------------|
|                  |                  |                       |                             |                                         |                                |                                   |                    |                     | P/ S                  |
| <b>74660</b>     | 1+1 /<br>1.3+1.3 | 240 $\mu$ H<br>+/-30% | 0.2 Arms                    | 0.9                                     | 50 V. $\mu$ s                  | 15V<br>100 – 500kHz               | 20 pF              | 0.35 $\mu$ H        | 0.5 kV                |
| <b>74661</b>     | 1+1 /<br>1+1     | 10 $\mu$ H<br>+/-10%  | 3 Apeak<br>0.5 Arms         | 0.2                                     | 30 V. $\mu$ s                  | 0.05 V / kHz<br>100 – 400kHz      | 20 pF              | 0.2 $\mu$ H         | 0.5 kV                |
| <b>74670</b>     | 1+1 /1.3         | 220 $\mu$ H<br>+/-30% | 0.4 Arms                    | 0.25                                    | 15 V. $\mu$ s                  | 0.03 V / kHz<br>100 – 500kHz      | 12 pF              | 0.4 $\mu$ H         | 4 kV                  |

- 74660 can be used in association with MAXIM MAX250 or MAX253
- 74661 can be used in association with LINEAR TECHNOLOGY LT1424
- 74660 can be used in association with MAXIM MAX845

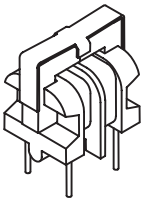
**SAFETY :**

These products are only composed of UL-V0 approved materials.

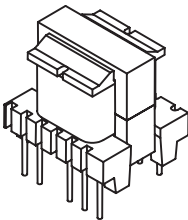
**74660 – 74661 Size EEM12.7****74670 – 74714 Size T10**



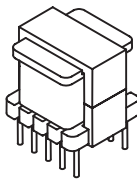
74710 - 74716 - 74717



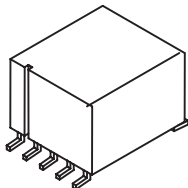
74711



74712



74713



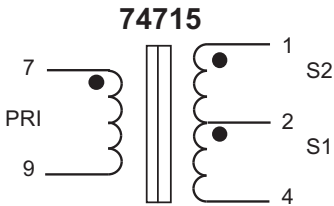
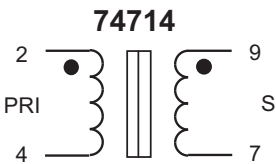
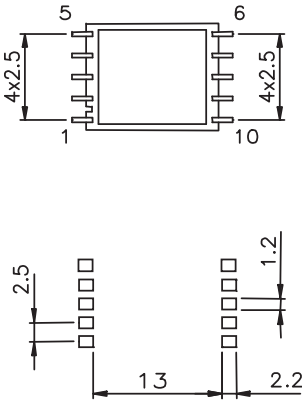
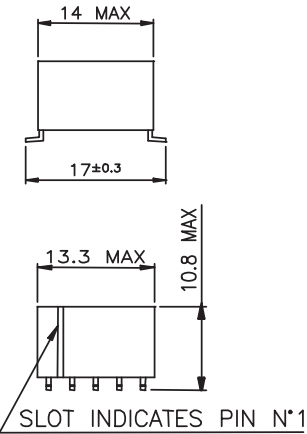
74714 - 74715

- Designed for coupling signals to power line
- Adapted for use with Modem Circuits : **ST7537**, **ST7538**, **TDA5051** or **IC/SS**

| MYRRA<br>Part N° | Inductance<br>( $\mu$ H) | Leakage<br>Inductance<br>( $\mu$ H) | Resistance<br>per winding<br>P / S (max) | Frequency<br>range | Turns<br>ratio<br>P / S | Max Sec.<br>current<br>(mA rms)<br>(50 - 60 Hz) | Insulation<br>(Vrms) | Size    |
|------------------|--------------------------|-------------------------------------|------------------------------------------|--------------------|-------------------------|-------------------------------------------------|----------------------|---------|
| 74714            | 1300 +/-40 %<br>(2 - 4)  | < 0.5                               | 0.2 $\Omega$ / 0.2 $\Omega$              | 10 - 200kHz        | 1 / 1                   | 4                                               | 5500                 | T10-SMD |
| 74715            | 3.0 +/-25 %<br>(7 - 9)   | < 0.1                               | 0.06 $\Omega$ / 0.1 $\Omega$             | 1 - 20 MHz         | 2 / 1+1                 | 200                                             | 4000                 | T10-SMD |

74714 - 74715

Reinforced insulation, creepage distance > 8 mm



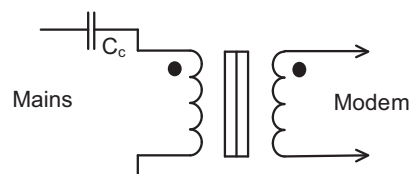


| MYRRA Part N° | Inductance (μH)        | Leakage Inductance (μH) | Resistance per winding P / S (max) | Frequency range | Turns ratio P / S | Max Sec. current (mA rms) (50 - 60 Hz) | Insulation (Vrms) | Size         |
|---------------|------------------------|-------------------------|------------------------------------|-----------------|-------------------|----------------------------------------|-------------------|--------------|
| <b>74710</b>  | 2000 +/-40 % (1 - 3)   | 44 +/-7%                | 0.6 Ω / 0.6 Ω                      | 10 – 450kHz     | 1 / 1             | 10                                     | 4000              | EF16-H-4P    |
| <b>74711</b>  | 2900 +/-40% (1 - 2)    | 44 +/-7%                | 1 Ω / 1 Ω                          | 10 – 200kHz     | 1 / 1             | 4                                      | 1500              | U9.8-4P      |
| <b>74716</b>  | 45000 +/- 40 % (3 - 1) | 1500 +/-10 %            | 12 Ω / 14 Ω                        | 10 - 200kHz     | 1/1.15            | 4                                      | 4000              | EF 16 H - 5P |
| <b>74717</b>  | 400 +/- 40 % (3 - 1)   | 14.4 +/- 10 %           | 0.3 Ω / 0.5 Ω                      | 20 - 450kHz     | 1/1.67            | 40                                     | 4000              | EF 16 H - 5P |

### • 74710 - 74711 - 74716 – 74717

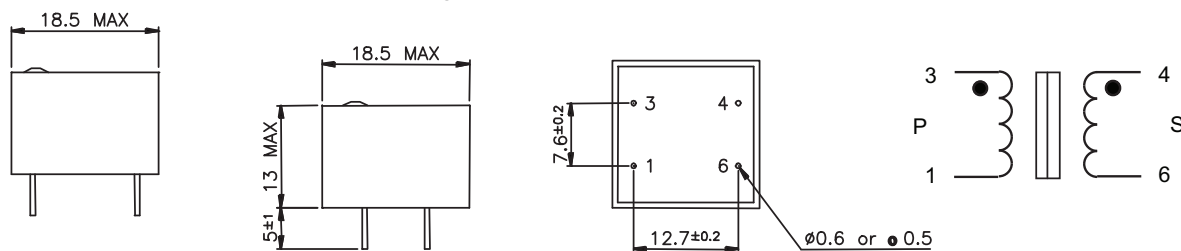
#### Typical application :

Designed for resonance of series coupling capacitor and the transformer leakage inductance.

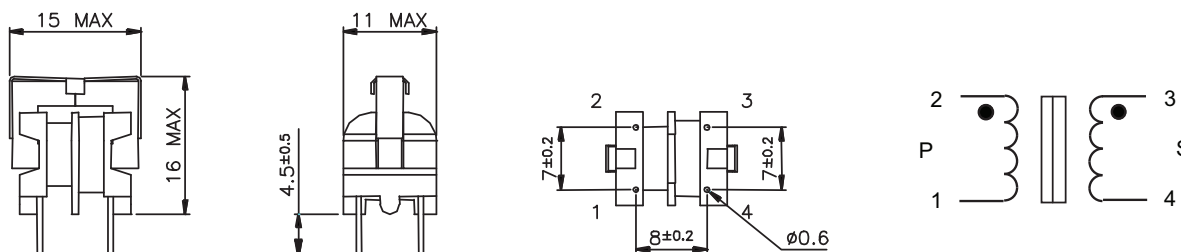


| MYRRA Part N° | Series Resonance Frequency (kHz) | Mains Coupling capacitance (nF) |
|---------------|----------------------------------|---------------------------------|
| <b>74710</b>  | 132.5                            | 33                              |
| <b>74711</b>  | 132.5                            | 33                              |
| <b>74716</b>  | 50                               | 6.8                             |
| <b>74717</b>  | 40 - 90                          | 470                             |

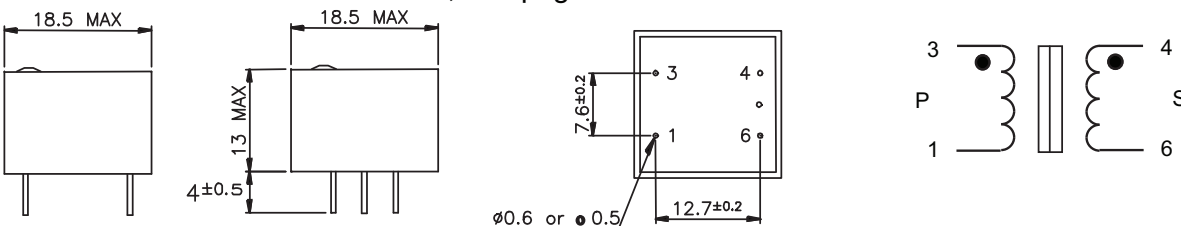
#### 74710 Reinforced insulation, creepage distance > 8 mm



#### 74711 Functional insulation



#### 74716 - 74717 Reinforced insulation, creepage distance > 8 mm

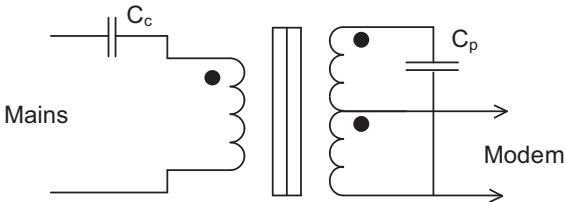




| MYRRA<br>Part N° | Inductance<br>( $\mu$ H) | Leakage<br>Inductance<br>( $\mu$ H) | Resistance<br>per winding<br>P / S (max) | Frequency<br>range | Turns<br>ratio<br>P / S | Max Sec.<br>current<br>(mA rms)<br>(50 - 60 Hz) | Insulation<br>(Vrms) | Size          |
|------------------|--------------------------|-------------------------------------|------------------------------------------|--------------------|-------------------------|-------------------------------------------------|----------------------|---------------|
| 74712            | 212 +/-10 %<br>(2 – 5)   | < 5<br>(2 – 5)                      | 0.8 $\Omega$ / 0.04 $\Omega$             | 10kHz – 1MHz       | 5+1 / 1                 | 500                                             | 4000                 | E16-V-<br>10P |
| 74713            | 144 +/-10 %<br>(2 – 5)   | < 5                                 | 0.5 $\Omega$ / 0.5 $\Omega$              | 10 – 450kHz        | 5+1 / 5+1               | 200                                             | 1500                 | E13-V-<br>10P |

• 74712 - 74713  
Typical application :

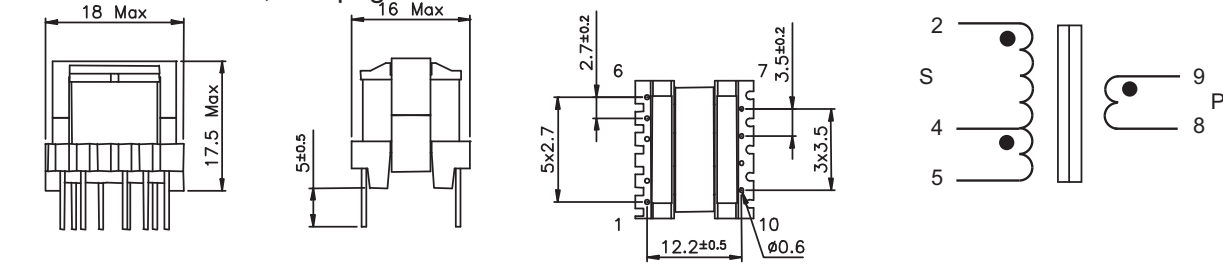
Designed for resonance of parallel capacitor with the primary magnetizing inductance.



| MYRRA<br>Part N° | Parallels Resonance Frequency ( kHz ) | Mains Coupling capacitor(nF) | Parallel capacitor ( nF ) |
|------------------|---------------------------------------|------------------------------|---------------------------|
| 74712            | 132.5                                 | 33                           | 6.8                       |
| 74713            | 132.5                                 | 33                           | 10                        |

74712

Reinforced insulation, creepage distance > 6 mm



74713

Functional insulation

