

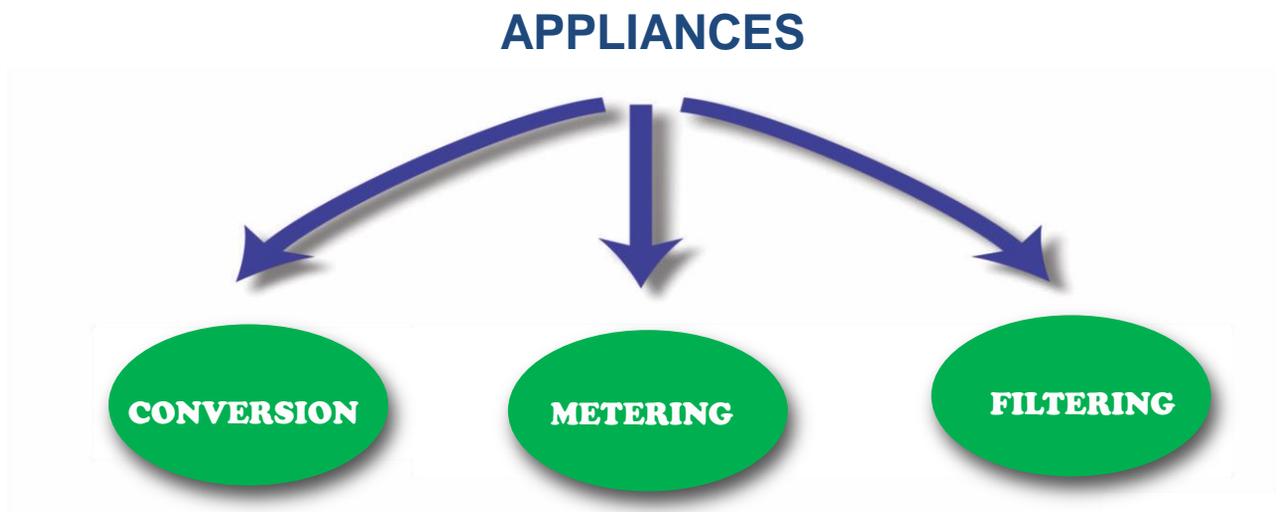
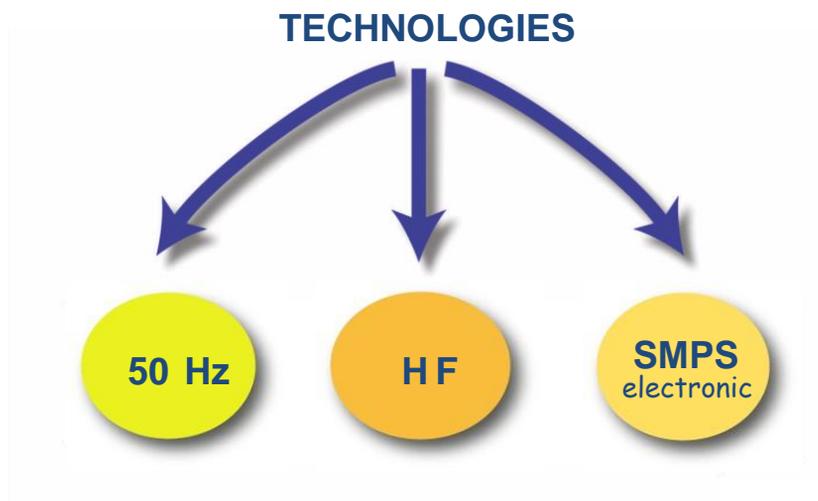
# PCB Magnetic Components

## Transformers and Chokes



Major supplier in high quality for electronics components with a worldwide reputation, **Myrra** have customers all over the world through a blue-chip customer base in a variety of industries, including energy conversion, industrial applications, renewable energy and healthcare.

3 technologies for 3 main appliances



# PCB Magnetic Components

## 50Hz Encapsulated Transformers

*Full range of standard references*  
*Isolating safety application*  
*UL, VDE, EN61558 certification*  
*Automated - 100% tested production*

### SERIES 44000

0,6 VA to 2,8 VA → EI 30-5 to EI 30-18

3,2 VA to 30 VA → EI 38 to EI 66



- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- Insulation voltage 4 KV • 100 % tested production

# PCB Magnetic Components

## 50Hz Encapsulated Transformers

*Full range of standard references*  
*Isolating safety application*  
*UL, VDE, EN61558 certification*  
*Automated - 100% tested production*

**Extra Flat**

### SERIES 45000

1 VA to 60 VA

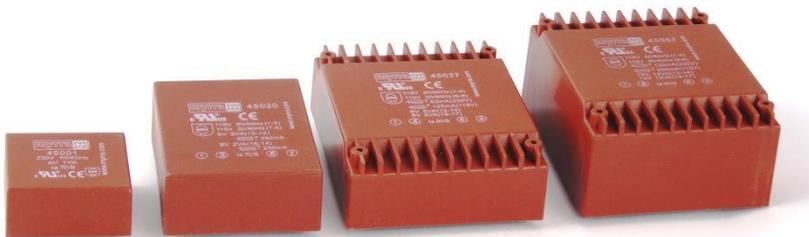


**UI 21**  
1VA

**UI 30**  
3-10VA

**UI 39**  
10-30VA

**UI 48**  
40-60VA



- 115 V- 230 V supply voltage by series/parallel connection
- Vacuum filling
- Two compartments bobbins
- Degree of protection IP 00
- Resin class UL 94 VO
- Fuse protection or design protection
- Insulation voltage 4 KV
- 100 % tested production
- Conform to EN 61558 Approval under process
- UL 5085 approved

# PCB Magnetic Components

## High Frequency Ferrites

*Large application range:*

*Flyback transformers, CM chokes, Current transformers, Pulse transformers etc...*

*International standards compliant*

*Standard products and customized design*

### FLYBACK TRANSFORMERS

**1 W to 12 W**



**E10 to E16**

**10 W to 30 W**



**EL19 - EF20 - EE25**

**35 W to 180 W**



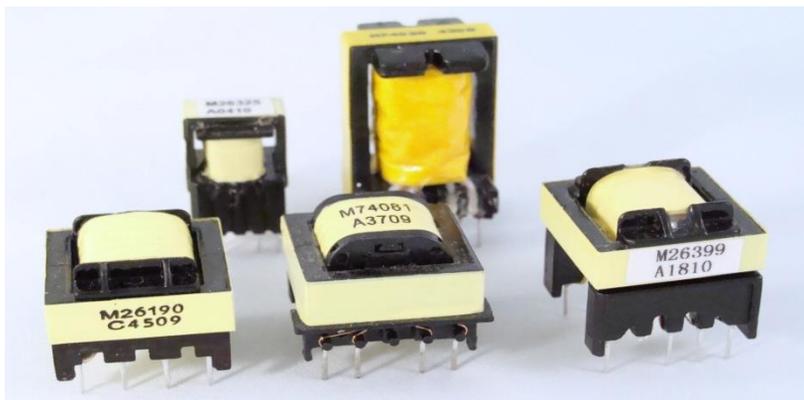
**ETD29 to ETD44 and ERL28**

Also available for custom design:

**1 W to 200 W**



**E10 to ETD49 and over**



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$  \*
- Creepage distance Primary / Secondary  $\geq 6mm$  or  $8mm^*$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

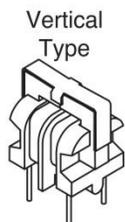
\* According to the technical specifications

# PCB Magnetic Components

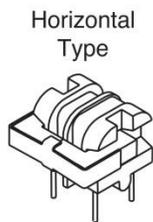
## High Frequency Ferrites

### COMMON MODE CHOKES

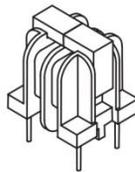
- Mainly used to reduce noise conducted through power or signal lines.
- The common mode inductance filters symmetrical noise, associated with Y-type safety capacitors connected to ground.
- The differential mode inductance filters asymmetrical noise, associated with X-type capacitor connected between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



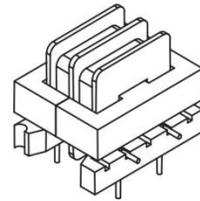
U9.8



U10.5



U16



E25

- Dielectric Strength  $\geq 1.5$  kV between windings
- Electrical characteristics at 25 °C
- Other size on custom design

### TOROIDAL CHOKES



- 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 °

# PCB Magnetic Components

## High Frequency Ferrites

### CURRENT TRANSFORMERS RANGE

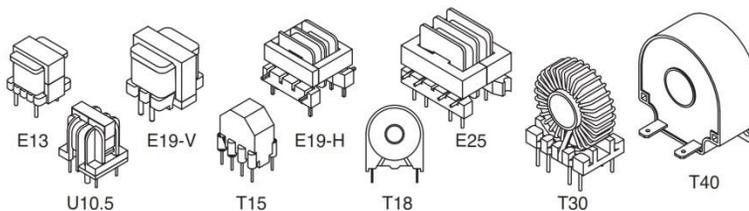
- For Mains AC Current Measurement - 50 to 400 Hz

*E19-H / E19-V / E25 / U10.5 / T18*

- For Switch mode Power Supplies - 20 to 150 kHz

*E19-H / E13 / E25 / U10.5 / T15 / T18 / T30 / T40*

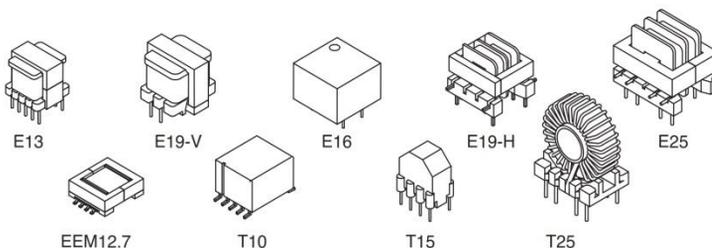
- ➡ Pin Primary up to 25A
- ➡ Thru-Hole Primary up to 250A



\* Other size for custom design

### PULSE TRANSFORMERS RANGE

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



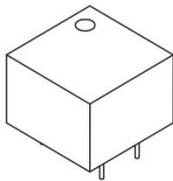
- These products are only composed of UL-V0 approved materials.
- Specific parts have a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation (8 mm creepage distance)

# PCB Magnetic Components

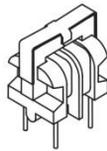
## High Frequency Ferrites

### POWER LINE COMMUNICATION COUPLING TRANSFORMERS

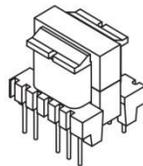
- *Coupling signals to power line, adapted for use with modem circuits*
- *Resonance of series coupling capacitor and the transformer leakage inductance*
- *Or resonance of parallel capacitor with the primary magnetizing inductance*



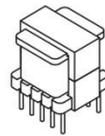
74710 - 74716 - 74717



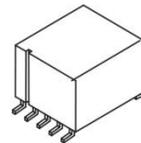
74711



74712



74713



74714 - 74715

- These products are only composed of UL-V0 approved materials.
- Functional insulation or construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation (6 to 8 mm creepage distance)