

## Magnetic Details for PMP7672

### Switching Power Transformer Magnetic details

Core Type	Core Material	Bobbin	Isolation Voltage	Quantity
EDR3909	CF139/N87	10Pin(Vertical)	2000V AC	1

### Winding Details

Winding	No. of Turns	Wire Gauge	Start Pin	End Pin	Inductance
W1	35	30 AWG	3	1	1.2mH $\pm$ 10%
W2	11	26 AWG	8	6	~100 $\mu$ H
W3	6	34 AWG	4	5	~20 $\mu$ H

### Electrical requirements

- Leakage Inductance (Pin3-1) - 36 $\mu$ H (max) with all other windings/pins shorted
- Insulation Voltage - Between 3 - 1 pins shorted and to pins 7 & 8 shorted together - 2000V AC for 1min

### Transformer Construction -

#### Winding Procedure:

- Start with half Primary (W1) starting at Pin 3 and ending in Pin 2 in two layers
- Basic Insulation
- Secondary (W2) starting at Pin 8 and ending in Pin 6 in two layers
- Basic Insulation
- Bias (W3) in one layer, start at Pin 4, end at Pin5
- Reinforced Insulation
- Wind half primary (W1) starting at pin 2 and ending at pin 1 in two layers
- Reinforced Insulation
- Gap core suitably to get required primary inductance
- Bond the core to avoid audible noise
- Vacuum impregnate with varnish
- Cut off Pin 2 without damaging the termination on it.