PoE Signal Path Transformer WA8704-ALD

- Designed to meet upcoming IEEE802.3bt high power PoE standard
- Designed for 150 W 4-pair signal path with 1.5 A on each center tap*
- Exceeds return loss requirements of Gbit Ethernet
- 1500 Vrms, one minute isolation (hipot) winding to winding

Core material  Ferrite  
Terminations  RoHS compliant tin-silver-copper over tin over nickel over phos bronze  
Weight  3.6 g  
Ambient temperature  –40°C to +85°C  
Storage temperature  Component: –40°C to +85°C. Tape and reel packaging: –40°C to +80°C  
Resistance to soldering heat  Max three 40 second reflo ws at +260°C, parts cooled to room temperature between cycles  
Moisture Sensitivity Level (MSL)  1 (unlimited floor life at <30°C / 85% relative humidity)  
Failures in Time (FIT) / Mean Time Between Failures (MTBF)  60 per billion hours / 16,666,667 hours, calculated per Telcordia SR-332  

Packaging  
250/13″ reel; Plastic tape: 32.4 mm wide, 0.5 mm thick, 24 mm pocket spacing, 10.6 mm pocket depth  
PCB washing  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Dimensions are in inches/mm

* 1.5 A DC current applied to each cable side center tap causes a 15°C rise from 25°C ambient. This is for reference only and does not represent absolute maximum ratings.
**“PoE Plus” Magnetics – WA8704-AL**

**Insertion Loss**

![Insertion Loss Graph]

**Return Loss**

![Return Loss Graph]

**Differential to Common Mode Rejection**

![Differential to Common Mode Rejection Graph]

**Crosstalk**

![Crosstalk Graph]

**L vs Offset Current**

![L vs Offset Current Graph]