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 reflows 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.

*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

Return Loss

Differential to Common Mode Rejection

Crosstalk

L vs Offset Current