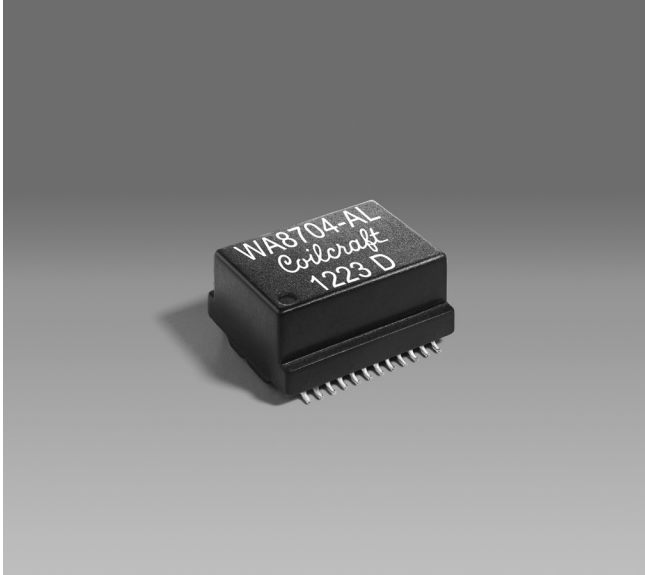




PoE Signal Path Transformer WA8704-AL



- 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

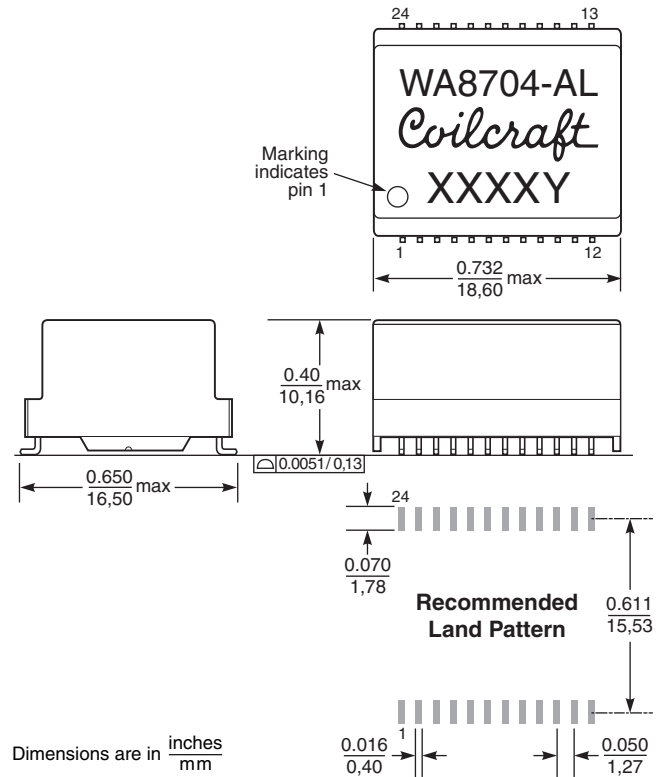
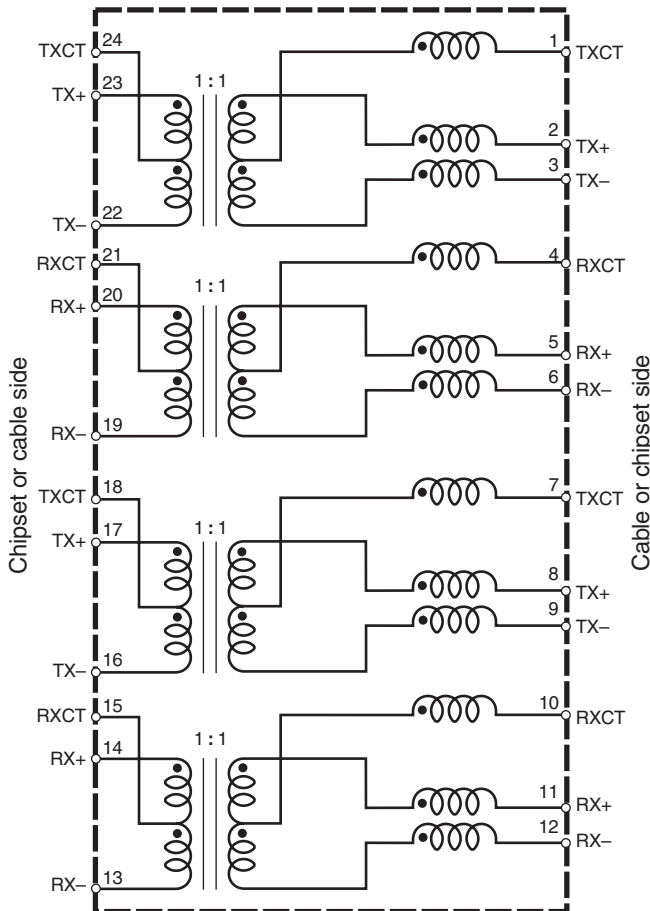
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

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.



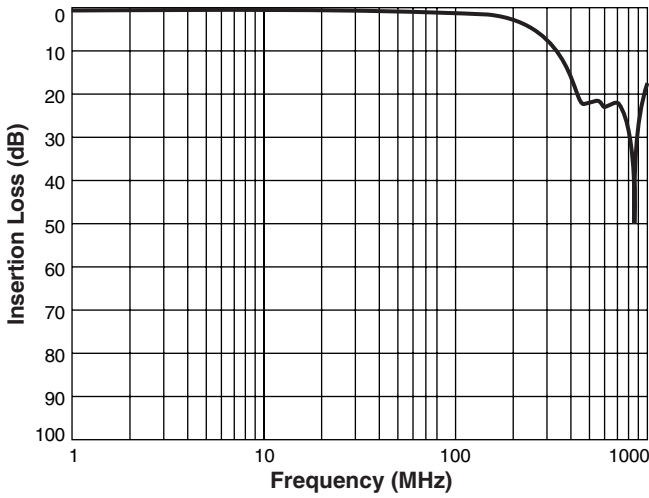
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UK +44-1236-730595 sales@coilcraft-europe.com
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China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

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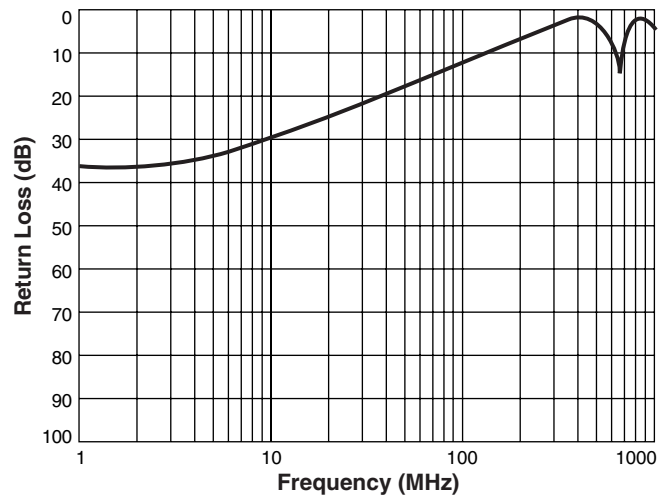


“PoE Plus” Magnetics – WA8704-AL

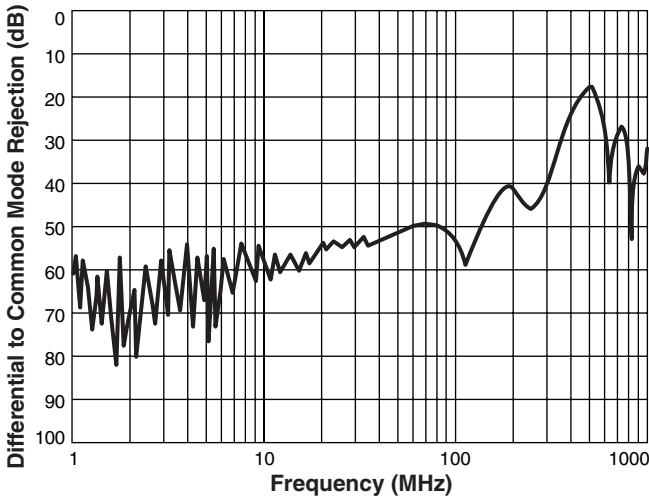
Insertion Loss



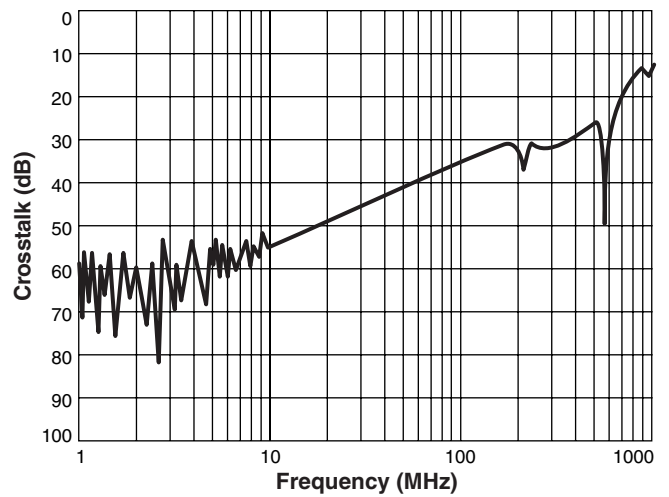
Return Loss



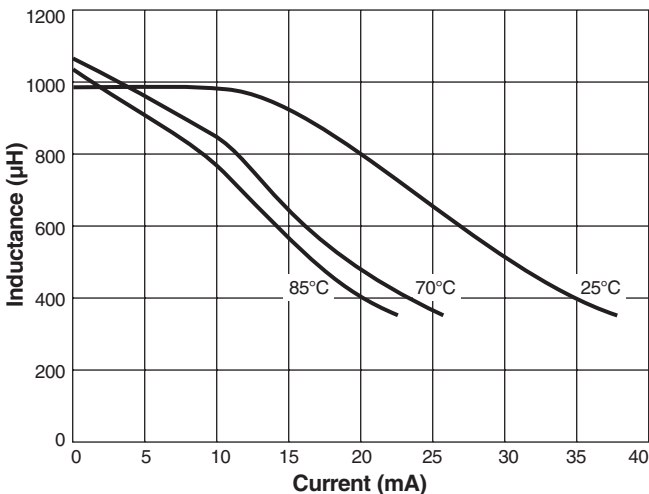
Differential to Common Mode Rejection



Crosstalk



L vs Offset Current



US +1-847-639-6400 sales@coilcraft.com
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Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

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