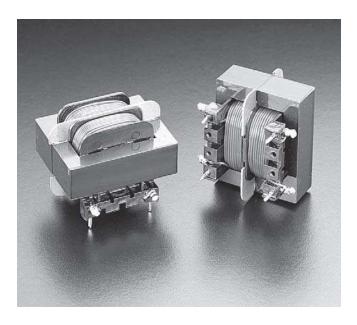


Combination Line Filter Choke Common and Differential Mode



Part number	Common mode L typ (mH)	Differential mode L typ (µH)	DCR max (Ohms)	Isolation (Vrms)	Current rating (A)
P3717-AL	25.0	1000	0.30	1500	3
Q4007-AL	4.5	150	0.06	1500	5
Q4018-AL	1.5	35	0.02	1500	10

1. Operating temperature range -40° to +85°C.

2. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Core material Ferrite

Terminations RoHS compliant tin-silver over tin over copper.

Weight 100 - 113 g

Ambient temperature -40°C to +85°C

Storage temperature Component: -55°C to +85°C. Packaging: -40°C to +80°C

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

Mean Time Between Failures (MTBF) 26,315,789 hours

Failures in Time (FIT) 38 failures in one billion hours

Packaging 30 per tray (after 5/09); 16 per tray (prior to 6/09) PCB washing Only pure water or alcohol recommended



Specifications subject to change without notice. Please check our website for latest information.

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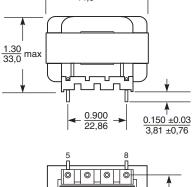
© Coilcraft, Inc. 2009 Downloaded from Datasheet.su 1102 Silver Lake Road Carv. Illinois 60013 Phone 847/639-6400 Fax 847/639-1469 E-mail info@coilcraft.com Web http://www.coilcraft.com

Recommended **PC Board Layout**

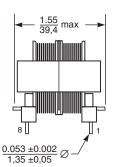
This series of chokes is intended for use in AC line filters for switching power supplies. They combine common and differential mode filtering in a single component.

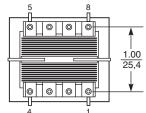
By using these parts, designers can eliminate two extra filter chokes compared to a standard common mode choke. The unique combination of special windings and materials provides much better filtering performance than either a common mode choke or a single winding inductor alone.

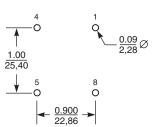
The differential filtering frequency response is designed to provide filtering at higher frequencies while still allowing the AC line power to pass through without loss. This characteristic is demonstrated in the Differential Mode Attenuation curves.

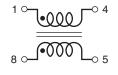


 $\frac{1.75}{44.5}$ max





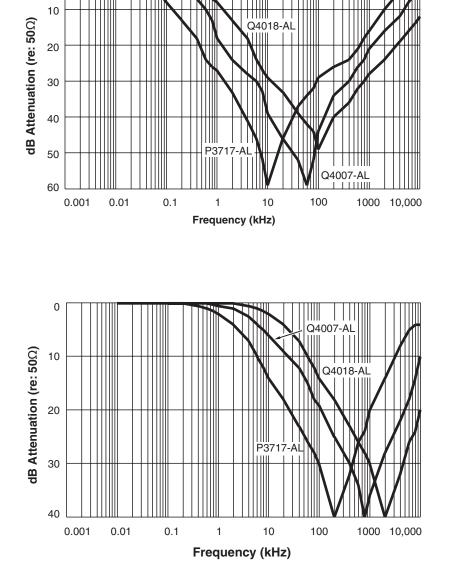






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Common Mode Attenuation Typical Response







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