

Power Choke Coil

Series: **PCC-M074L (MC)** **Low DCR Type**

Small mounting size for multi-phase DC-DC converter circuits



■ Features

- Small type (8.7×7.0×H4.0 mm)
- High power (17 A to 24 A)
- Low loss (R_{DC} : 1.0 to 1.5 mΩ)
- Tighter DCR tolerance ($\pm 7\%$)
- Suitable for high frequency circuit (up to 1 MHz)
- Low buzz noise due to its gap-less structure
- RoHS compliant

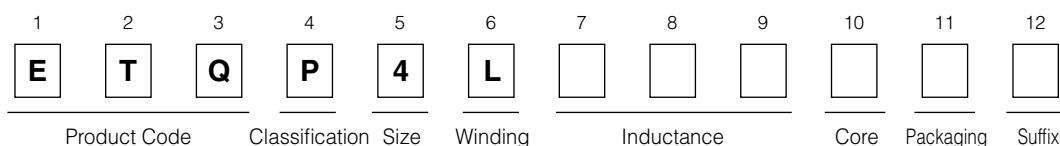
■ Recommended Applications

- Notebook PC power supply modules
- Servers, Routers, DC-DC converters for driving CPUs

■ Standard Packing Quantity (Minimum Quantity/Packing Unit)

- 3000 pcs./box (2 reel)

■ Explanation of Part Numbers



■ Standard Parts

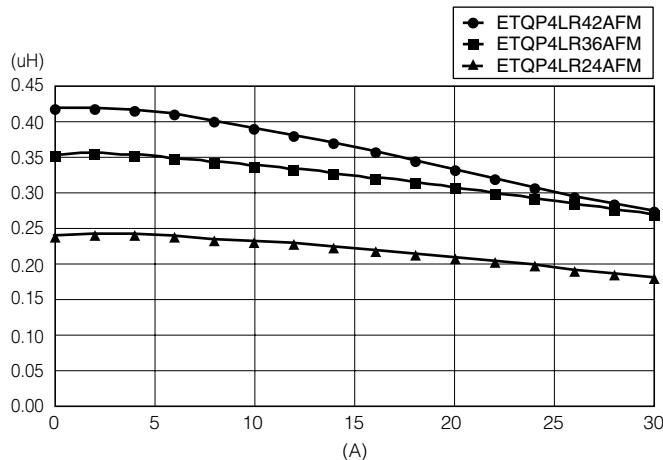
Part No.	Inductance (at 20 °C)* ¹			Rated current (A)* ²	DC resistance (at 20 °C) (mΩ)
	L0 at 0A		L1		
	(μH)	(μH)	Measurement current (A)		
ETQP4LR24AFM	0.24±20 %	(0.20)	24	24	1.00±7 %
ETQP4LR36AFM	0.36±20 %	(0.30)	20	20	1.35±7 %
ETQP4LR42AFM	0.42±20 %	(0.35)	17	17	1.50±7 %

(*1) Inductance is measured at 100 kHz.

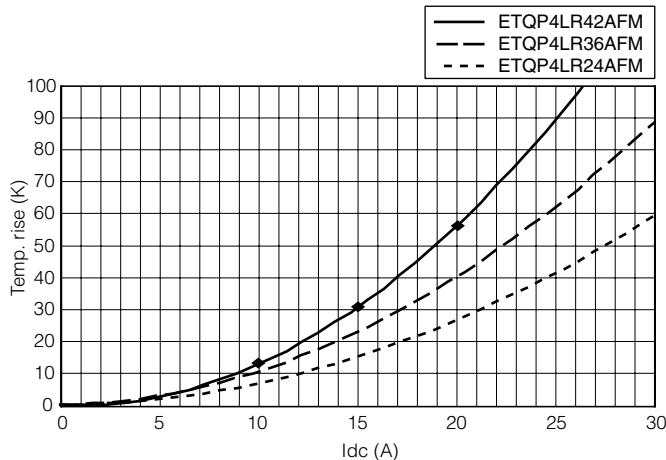
(*2) Rated current defines actual value of DC current, when temperature rise of coil becomes 40 K.

■ Performance Characteristics (Reference)

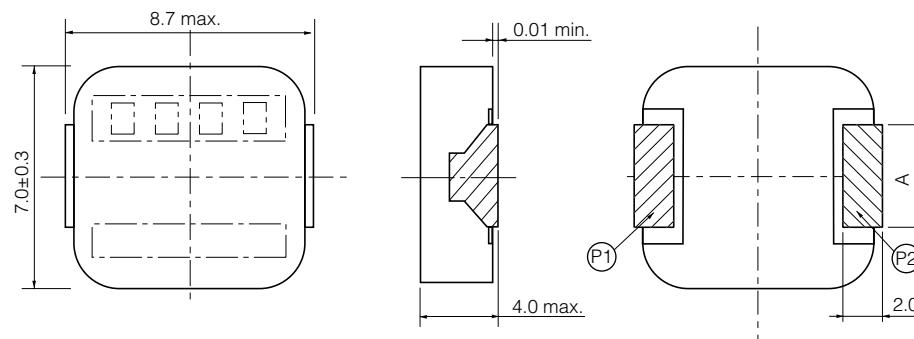
Inductance vs DC Current



Case Temperature vs DC Current



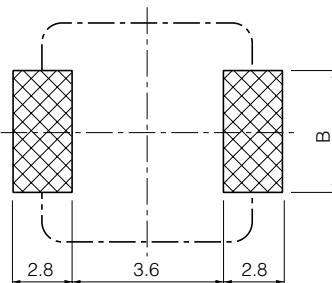
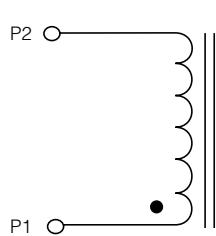
■ Dimensions in mm (not to scale)



Part No.	A
ETQP4LR24AFM	3.0±0.3
ETQP4LR36AFM	2.0±0.3
ETQP4LR42AFM	

■ Connection

■ Recommended Land Pattern in mm (not to scale)



Part No.	B
ETQP4LR24AFM	3.6
ETQP4LR36AFM	
ETQP4LR42AFM	2.6

■ Packaging Methods, Soldering Conditions and Safety Precautions (Power Choke Coils for Consumer use)

Please see Data Files