

Power Choke Coil

Japan
Singapore

Series: **PCC-M104L (MC)**

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



■ Features

- Small type (11.5×10.0×H4.0 mm)
- High power (21 A to 28 A)
- Low loss (R_{DC} :0.7 to 1.56 mΩ)
- Tighter DCR tolerance ($\pm 5\%$ to $\pm 10\%$)
- Suitable for high frequency circuit (up to 1 MHz)
- Low buzz noise due to its gap-less structure

■ Recommended Applications

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

■ Standard Packing Quantity

- 500 pcs./Reel

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	T	Q	P	4	L						
Product Code			Classification	Size	Winding	Inductance			Core	Packaging	Suffix

■ Standard Parts

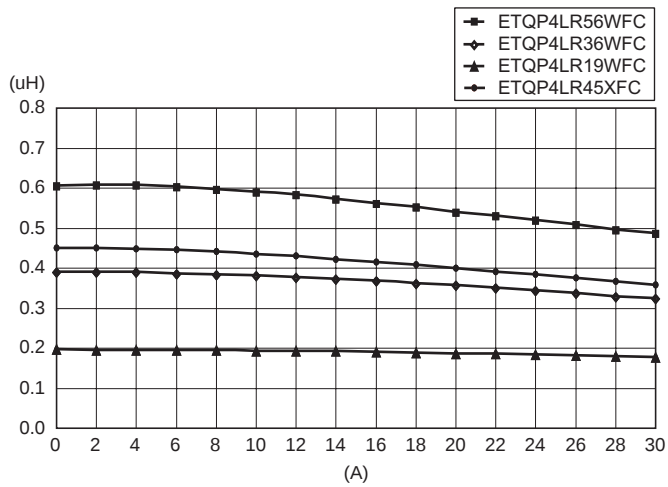
Part No.		Inductance (at 20 °C)				Rated current (A)	DC resistance (at 20 °C) (mΩ) center
	L0 at 0A	L1		L2 (Reference)			
	(μH)	(μH)	Measurement current (A)	(μH)	Measurement current (A)		
ETQP4LR19WFC	(0.20)	0.19±20 %	21	(0.17)	28	28	0.70±10 %
ETQP4LR36WFC	(0.37)	0.36±20 %	17	(0.34)	24	24	1.10± 5 %
ETQP4LR56WFC	(0.60)	0.56±20 %	15	(0.53)	21	21	1.56± 5 %
ETQP4LR45XFC	0.45+20/-25 %	—	—	(0.38)	25	24	1.10± 5 %

(Note1) Inductance is measured at 100 kHz

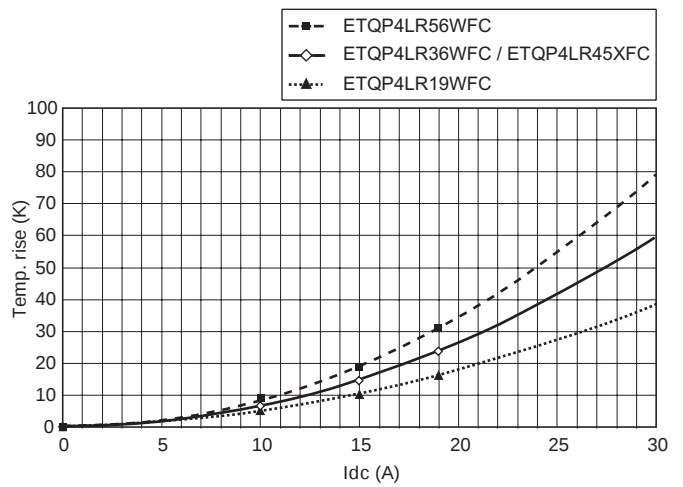
(Note2) Case heating current is the value of the current at which the temperature of the coil case rises 40 °C above its initial temperature with T(ambient)=25 °C

■ Performance Characteristics (Reference)

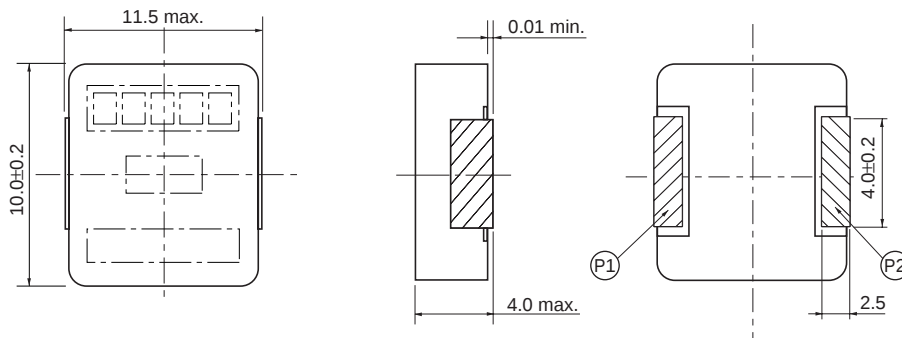
Inductance vs DC Current



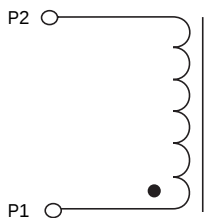
Case Temperature vs DC Current



■ Dimensions in mm (not to scale)



■ Connection



■ Recommended Land Pattern in mm (not to scale)

