Power Choke Coil

Series: **PCC-M125L (MC)**

High power, Low loss, Low profile

■ Features

- High power (25 A to 30 A)
- Low loss (R_{DC} :0.8 to 1.1 mΩ)
- Narrow R_{DC} tolerance (±5 % to ±7 %)
- Low profile (14.5×12.5×H5.0 mm)
- High frequency (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

- 1000 pcs./Reel

■ Explanation of Part Numbers

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

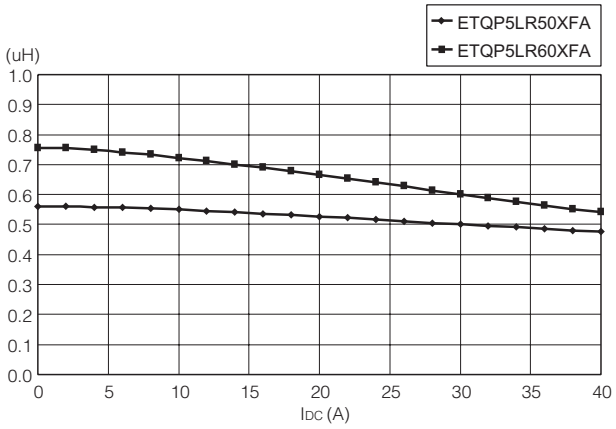
■ Standard Parts

Part No.	Inductance (at 20 °C)*1				Rated current (A)*2	DC resistance (at 20 °C) (mΩ)
	L1		L2 (Reference)			
	(μH)	Measurement current (A)	(μH)	Measurement current (A)		
ETQP5LR50XFA	0.50±20 %	30	(0.46)	42	30	0.80±7 %
ETQP5LR60XFA	0.60±20 %	30	(0.54)	42	27	1.10±5 %

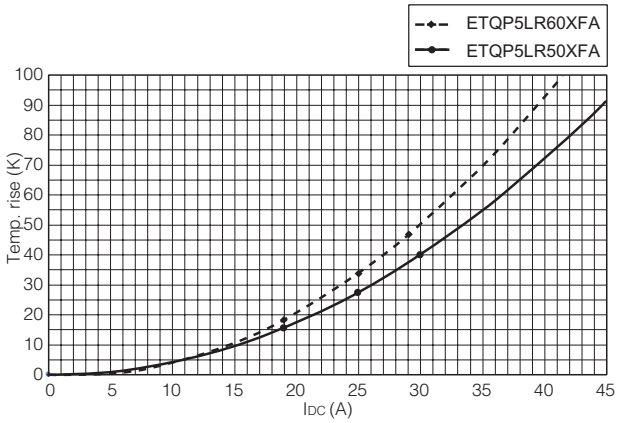
(*1) Inductance is measured at 100 kHz.
(*2) Rated current defines actual value of DC current, when temperature rise of coil becomes 40 K.

■ Performance Characteristics (Reference)

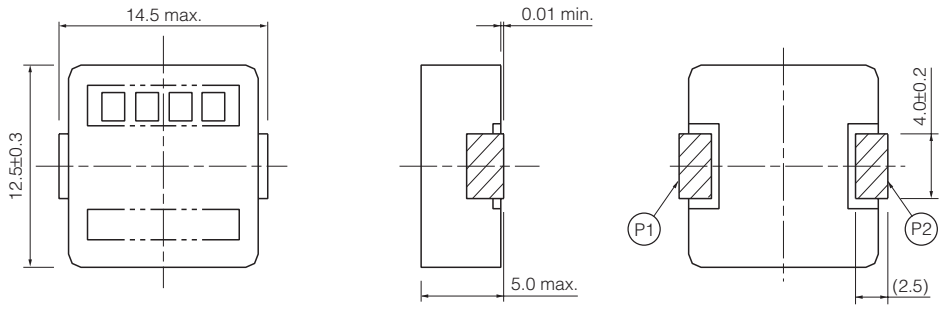
Inductance vs DC Current



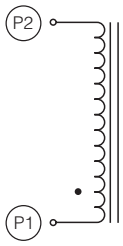
Case Temperature vs DC Current



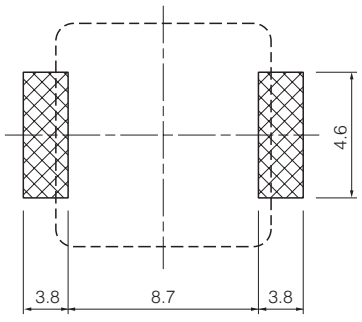
■ Dimensions in mm (not to scale)



■ Connection



■ Recommended Land Pattern in mm (not to scale)



■Packaging Methods Please see Pages 202 to 203

■Soldering Conditions Please see Page 204

■⚠Safety Precautions Please see Page 205