

## Power Choke Coil

Series : **PCC-M0730L (MC)**

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

## Features

- Small type (8.7×7.0×H3.0 mm)
- High power (22 A)
- Low loss ( $R_{DC}$  :1.12 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)

- 3,000 pcs./box (2 reel)

## Explanation of Part Numbers

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

## Standard Parts

Part No.	Inductance (at 20 °C)* <sup>1</sup>			Rated current (A)* <sup>2</sup>	Rated current (ref) (A)* <sup>3</sup>	DC resistance (at 20 °C) (mΩ)
	L0 at 0A	L1 * <sup>4</sup>				
	(μH)	(μH)	Measurement current (A)			
ETQP3LR24CFM	0.24±20 %	(0.19)	22	22	35	1.12±7 %

(\*1) Inductance is measured at 1.0 MHz.

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

(\*3) Rated current defines actual value of DC current, when temperature rise of coil becomes 40 K. (Method B)

(\*4) Reference only

(\*5) Method A (PANASONIC's standard measurement conditions),

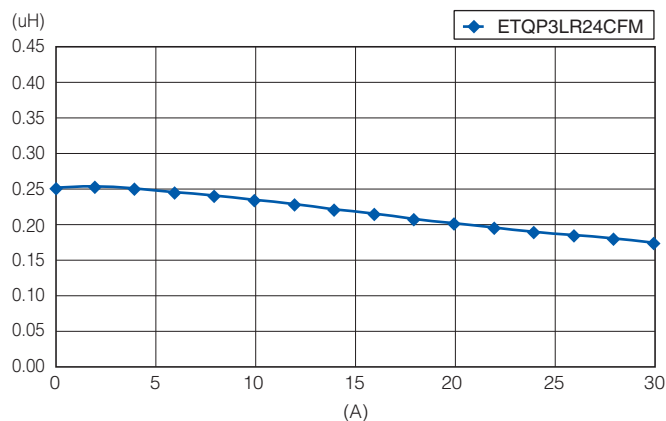
Method B (high heat dissipation measurement) is different from Method A by the measurement methods.

In normal application condition, the part's temperature depends on circuit design and heat dissipation condition.

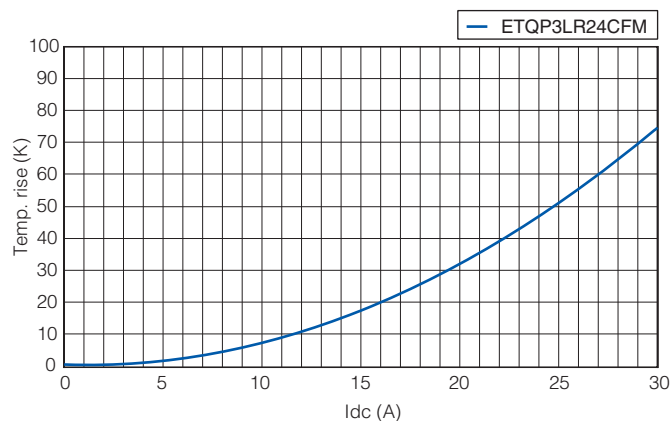
This condition shall be verified by the worst operational condition.

## Performance Characteristics (Reference)

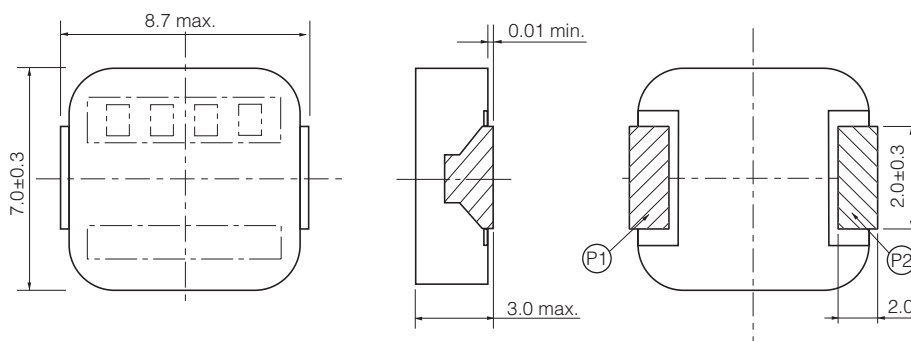
Inductance vs DC Current



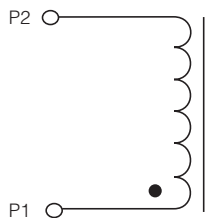
Case Temperature vs DC Current (Method A)



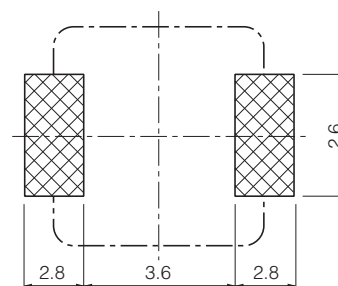
## Dimensions in mm (not to scale)



## Connection



## Recommended land patterns in mm (not to scale)



■ **As for Packaging Methods, Soldering Conditions and Safety Precautions (Power Choke Coils for Consumer use),**  
Please see Data Files

# AMEYA360

## Components Supply Platform

### Authorized Distribution Brand :



### Website :

Welcome to visit [www.ameya360.com](http://www.ameya360.com)

### Contact Us :

#### ➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

#### ➤ Sales :

Direct +86 (21) 6401-6692

Email [amall@ameya360.com](mailto:amall@ameya360.com)

QQ 800077892

Skype ameyasales1 ameyasales2

#### ➤ Customer Service :

Email [service@ameya360.com](mailto:service@ameya360.com)

#### ➤ Partnership :

Tel +86 (21) 64016692-8333

Email [mkt@ameya360.com](mailto:mkt@ameya360.com)