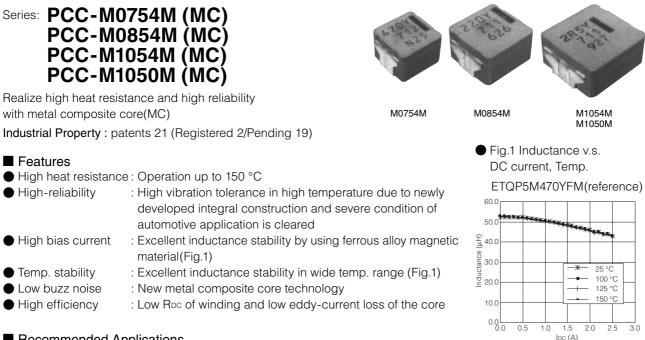
### Panasonic

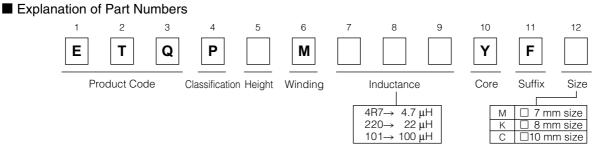
Power Choke Coil for Automotive application



- Recommended Applications
- Noise filter for various drive circuitry requiring high temp. operation and peak current handling capability
- DC-DC converters

#### Standard Packing Quantity

• 500 pcs./Reel



#### Temperature rating

Operating temperature range		Ta : 40 °C to : 150 °C(Ipoluding colf temporature rise)		
Storage condition	After PCB mounting	Tc : -40 °C to +150 °C(Including self-temperature rise)		
	Before PCB mounting	Ta : -5 °C to +35 °C 85%RH max.		

Standard Parts								
Series	Part No.	Inductance *1		Rated current	ed current Reference current		DC resistance	
		LO	Tolerance	∆T=15K* <sup>2</sup>	∆T=40K*3	Тур.	Tolerance	
		(µH)	(%)	(A)	(A)	$(m\Omega)$	(%)	
PCC-M0754M	ETQP5M4R7YFM	4.7	±20	2.8	4.5	20.4	±10	
	ETQP5M470YFM	48	±20	1.0	1.6	156	±10	
PCC-M0854M	ETQP5M2R5YFK	2.45	±20	4.5	7.5	7.6	±10	
	ETQP5M220YFK	22	±20	1.6	2.6	63	±10	
	ETQP5M470YFK	48	±20	1.1	1.8	125	±10	
PCC-M1054M	ETQP5M2R5YFC	2.5	±20	6.0	10	5.3	±10	
	ETQP5M3R3YFC	3.3	±20	5.1	8.6	7.1	±10	
	ETQP5M4R7YFC	4.7	±20	4.4	7.2	10.2	±10	
PCC-M1050M	ETQP5M101YGC	97	±20	1.0	1.6	208	±10	

(\*1) Inductance is measured at 100 kHz.

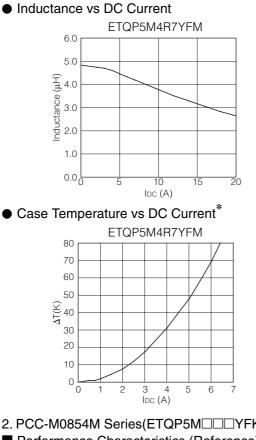
(\*2) Rated current defines actual value of DC current which is case temperature rise becomes 15 K.

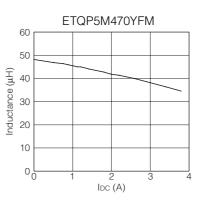
(\*3) Reference current defines actual value of DC current which is case temperature rise becomes 40 K.

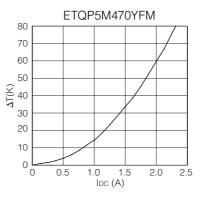
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

## **Panasonic**

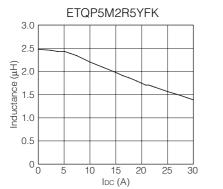
- 1. PCC-M0754M Series(ETQP5M PM)
- Performance Characteristics (Reference)

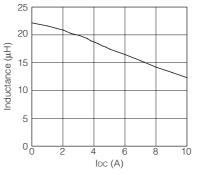




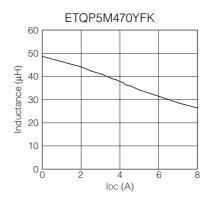


- 2. PCC-M0854M Series(ETQP5MDDYFK)
- Performance Characteristics (Reference)
- Inductance vs DC Current

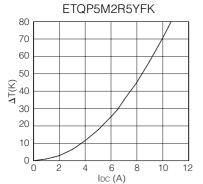


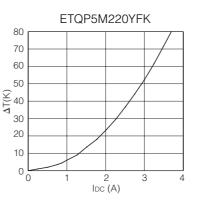


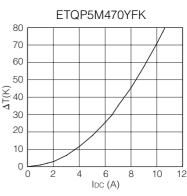
ETQP5M220YFK









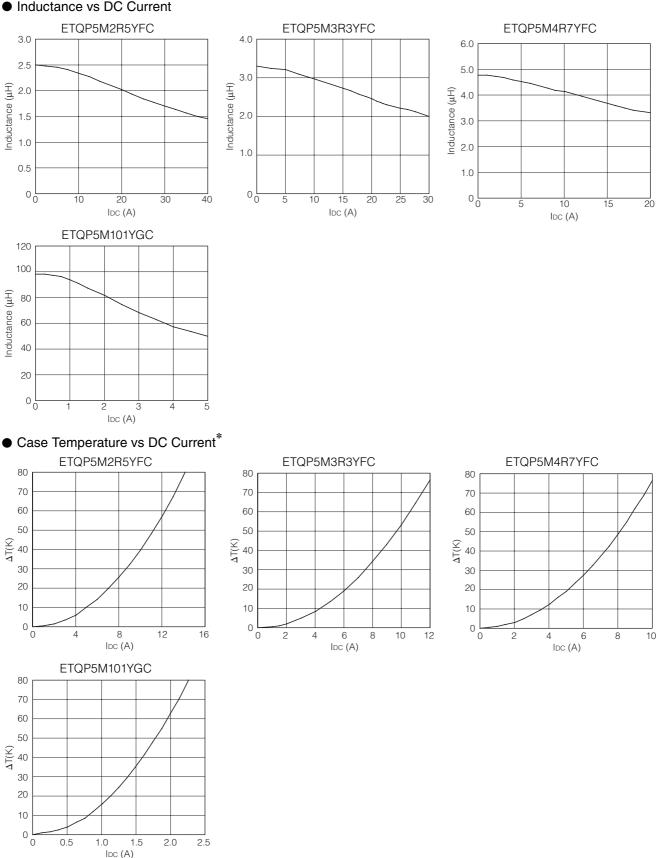


\* Above temperature rise is measured at Panasonic standard PCB condition. And actual temperature rise at application have different value due to PCB design and heat dissipation etc. So please confirm it at customer's application.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

# **Panasonic**

- 3. PCC-M1054M/PCC-M1050M Series(ETQP5M PC/ETQP5M PC/ETQPC PC/ETQP5M PC/ETQPC
- Performance Characteristics (Reference)
- Inductance vs DC Current



\* Above temperature rise is measured at Panasonic standard PCB condition. And actual temperature rise at application have different value due to PCB design and heat dissipation etc. So please confirm it at customer's application.

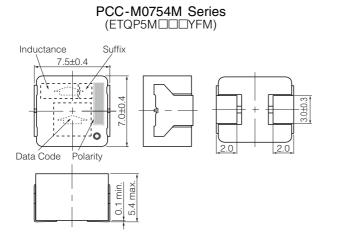
Inductance

Date Code

10.7±0.5

計

### Dimensions in mm (not to scale) Dimension tolerance of indication outside : ±0.5



PCC-M1054M Series

 $(ETQP5M \square \square YFC)$ 

Suffix

0.0+0.4

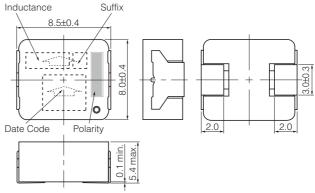
0.1 min.

5.4 max

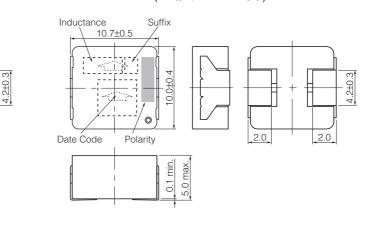
Ø

Polarity

PCC-M0854M Series (ETQP5MDDDYFK)

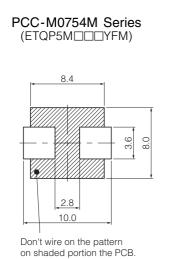


PCC-M1050M Series (ETQP5MDDDYGC)

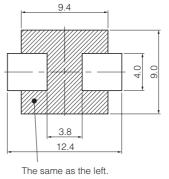


Recommended Land Pattern in mm (not to scale)

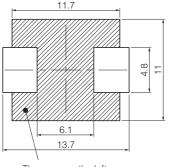
Dimension tolerance of indication outside : ±0.5



PCC-M0854M Series (ETQP5MDDYFK)



PCC-M1054M Series PCC-M1050M Series (ETQP5M PYFC/YGC)



The same as the left.

2.0

2.0

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.