Inductance range



Power inductors for automotive application

Panasonic Power Choke Coil (PCC) - ETQP*M series

PCC PORTFOLIO

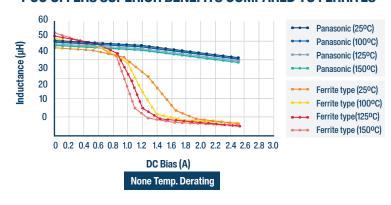
Main series line-up & Comparison

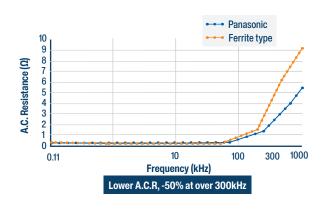


					Space
Series	PCC-MC High Perform	PCC-LP Low Profile	PCC-LE LE type	PCC-1280 Large Current	
Temperature	-40 ~ +150°C	-55 ~ +155°C	-40 ~ +150°C	-40 ~ +160°C (+180°C in short hrs.)	Cost Inductance range
Inductance range	0.33~100μH	0.33~47μH	3.3~47µH	0.33~4.7μH	
Rated current	1.9~39.7A	2.1~23.9A	2.9~9.2A	20.2~53.5A	
Package size (mm)	□5.5x5.0x3.0~ □10.9x10.0x6.0	□5.5x5.0x3.0~ □10.7x10.0x4.0	□6.4x6.0x4.8 □7.4x7.0x4.8	□13.2x12.6x8.0	
Benefit	 High performance Robust & high stability High saturation Low AC-power loss Vibration up 	 Low profile design Max 3.0 & 4.0mm height. Low DCR Pin layout compatible with IHLP series 	> Lower DCR > Less mounting space > Pin to pin compatible with Ferrite type	> High current > Lower DCR > 30G Vibration > ½ package size	Robustness DCR Saturation current
	to 50G parts available				● PCC-MC ● PCC-LP ● PCC-LE ● PCC-1280 ● Ferrite

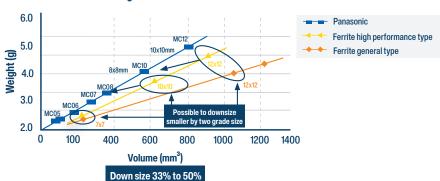
- > Panasonic Power Inductor has a unique metal composite core material, leading to special benefits (e.g. low saturation, low loss at high frequency).
- Line-up is designed for harsh environment and includes products for up to 180°C temperature and 50G vibration.
- Line-up ranges from 0.33µH to 100µH at case sizes from 5x5 to 12x12 mm.
- The above listed inductor line-up complies with AEC-Q200 for automotive use.











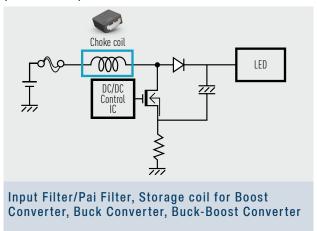


Power inductors for automotive application

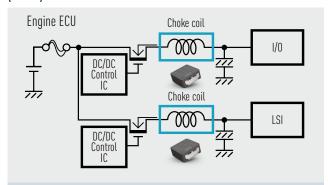
Panasonic Power Choke Coil (PCC) - ETQP*M series

RECOMMENDED APPLICATIONS

DC/DC Choke Coil Applications (LED driver)

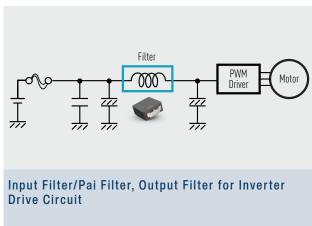


DC/DC Buck converter (ECU)



Storage Coil for Boost Converter, Buck Converter, Buck-Boost Converter, and other applications such as Injection Driver Circuit, etc.

Filter Application (Motor drive)



POWER INDUCTORS FOR AUTOMOTIVE APPLICATION

Panasonic provides design support, including a LC Filter Simulation and Power Loss Tool at the Panasonic Website:



