Panasonic

Power Choke Coil

Series: PCC-F179F (S1)

Japan Singapore



Thin, light and high power type made possible by our original unique winding and core shape technology

Suitable for large current demands of PC servers

- Features
- High power type (Saturation currents up to 42.3 A) Its low loss is due to our low resistive technology
- Thin (9.0 mm height), Light weight (9.9 g)
- Low leakage flux
- RoHS Compliant
- Explanation of Part Numbers

- Recommended Applications
- PC(Server) DC/DC converters for driving CPU at high speed
- Thin type on-board power supply module for converters (30 to 80 W)
 Also suitable as a smacthing shake sail

Also suitable as a smoothing choke coil



Examples

Parts No.	Туре	Initial inductance at 25 °C		Inductance at flat point at 25 °C		Saturation current		Heat reference current	
						at 25 °C	at 100 °C	ΔT=40 K	at 20 °C
			Tol.	L1 (µH)	Tol. (%)	I sat (A)	l sat (A)	I o (A)	DCR (mΩ)
			(%)			min.	min.		max.
ETQPAF1R2HF	• HL	2.9	±30	1.2	±30	21.4	18.0	22.6	1.00
ETQPAF2R7HF		4.6		2.7		15.5	12.5	17.5	1.56
ETQPAF4R8HF		6.8		4.8		10.6	9.0	14.4	2.29
ETQPAF7R2HF		9.7		7.2		8.6	7.3	12.0	3.31
ETQPAF0R7EF	ΕX	1.9		0.7		50.4	42.3	22.6	1.00
ETQPAF1R3EF		2.9	±25	1.3	±25	35.2	28.5	17.7	1.56

Notes: Inductance is measured at 100 kHz

See Figure 1 for the following:

- 1) For the definition of $L_0\&\ L_1,$ please refer to the next page.
- 2) Saturation current (I sat) is the current value that inductance (L1) decreases to 80% of initial value
- 3) Case heating current is the value of the current at which the temperature of the coil case rises

40 degrees Celsius above its initial temperature with T(ambient)=25C

■ Figure 1: L₀,L₁:Definition

DC Bias Characteristic



Figure 2: Dimensions in mm(not to scale)

