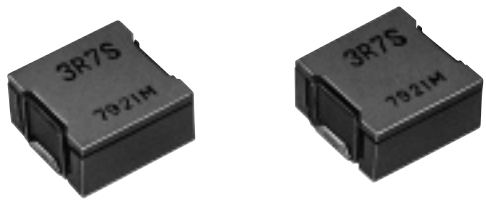
Power Choke Coil

Japan
Singapore

Series: **PCC-F179F (S1)**



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

■ 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 smoothing choke coil

■ Explanation of Part Numbers

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

■ Examples

Parts No.	Type	Initial inductance at 25 °C		Inductance at flat point at 25 °C		Saturation current		Heat reference current ΔT=40 K	DC resistance at 20 °C
						at 25 °C	at 100 °C		
		L_0 (μH)	Tol. (%)	L_1 (μH)	Tol. (%)	I sat (A) min.	I sat (A) min.	I_0 (A)	DCR (mΩ) 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□	EX	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

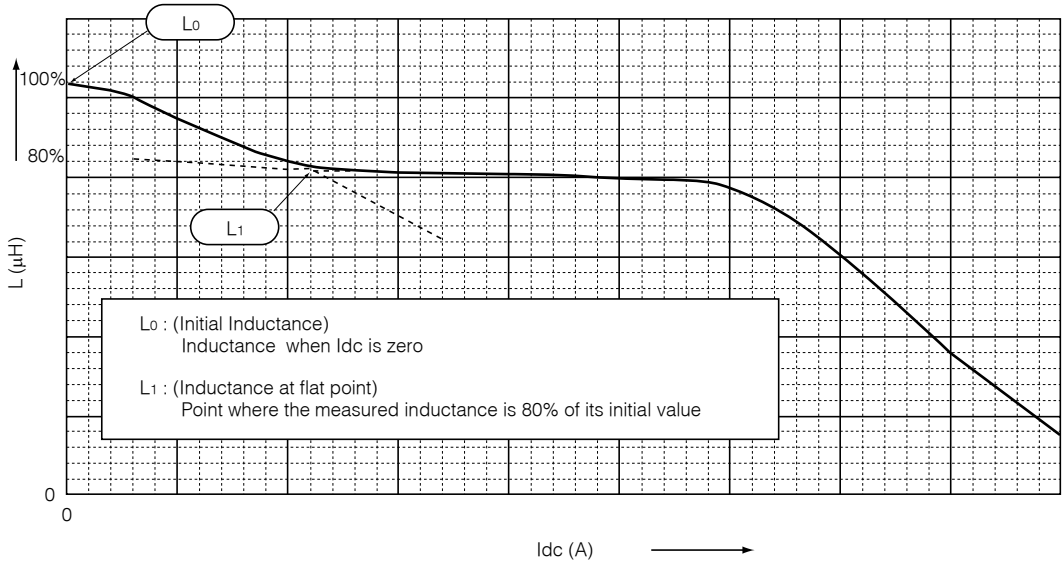
Notes: Inductance is measured at 100 kHz

See Figure 1 for the following:

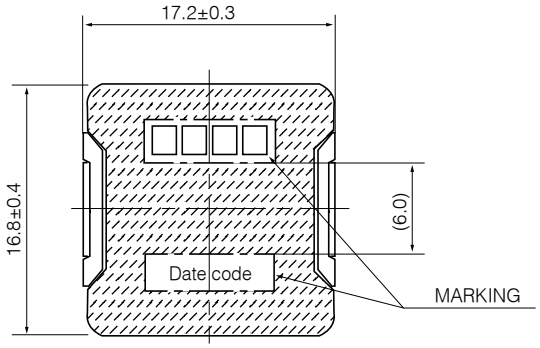
1) For the definition of L_0& L_1, please refer to the next page.
2) Saturation current (I sat) is the current value that inductance (L1) decreases to 80% of initial value
3) Case heating current is the value of the current at which the temperature of the coil case rises 40 degrees Celsius above its initial temperature with T(ambient)=25C

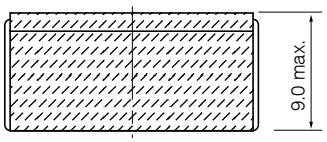
■ Figure 1: L_0,L_1:Definition

DC Bias Characteristic



■ Figure 2: Dimensions in mm(not to scale)





( ) : Reference value