Power Choke Coil　　　　Japan

Series: **PCC-N1**

Thin, compact and high power

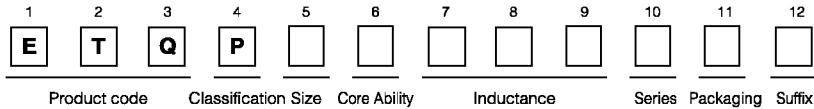Industrial Property: Utility models 3 (pending)

■ Features
● High power type(Saturation current : 15A is possible)
● Thin type (5.7mm height) /SMD mount
● Low leakage flux (EI type /Center gap core)

■ Recommended Applications
● DC/DC converter for driving PC at high speed
● Thin type on-board power supply module for exchanger (10~40W)

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	T	Q	P	□	□	□	□	□	□	□	□

| Product code | Classification | Size | Core Ability | Inductance | Series | Packaging | Suffix |

■ Performance Characteristics

Part numbers	Type	Initial inductance at 25°C L_0 (μH)	Inductance at flat point at 25°C L_1 (μH)	Saturation current at 25°C I sat (A) min.	Saturation current at 100°C I sat (A) min.	Heat rating current ΔT=40K(°C) I_0 (A) Reference only	DC resistance at 20°C DCR (mΩ) max.
ETQP1F1R2H□□	HL	2.3±30 %	1.2±30 %	14.3	11.7	13.2	2.76
ETQP1F2R0H□□		3.5±30 %	2.0±30 %	10.7	8.7	11.7	4.08
ETQP1F3R2H□□		4.8±25 %	3.2±25 %	8.6	7.1	9.8	6.00
ETQP1F4R6H□□		6.6±25 %	4.6±25 %	7.3	6.0	8.4	7.92
ETQP1F6R4H□□		3.8±25 %	6.4±25 %	6.2	5.2	7.1	10.6
ETQP1F8R2H□□		10.4±25 %	8.2±25 %	5.6	4.7	6.5	13.3
ETQP1F102H□□		12.5±25 %	10.2±25 %	4.7	4.0	5.8	16.3
ETQP1F1R0S□□	SP	1.9±30 %	1.0±30 %	19.4	15.4	13.2	2.76
ETQP1F1R6S□□		2.8±30 %	1.6±30 %	14.9	12.2	11.7	4.08
ETQP1F2R5S□□		3.6±30 %	2.5±30 %	11.3	9.3	9.8	6.00
ETQP1F0R8L□□	LB	2.5±30 %	1.3±30 %	18.6	15.8	11.7	4.08
ETQP1F2R0L□□		3.1±30 %	2.0±30 %	15.1	12.1	9.8	6.00
ETQP1F2R9L□□		4.1±30 %	2.9±30 %	12.0	10.0	8.4	7.92

(Note1) Measured frequency of inductance is 100kHz
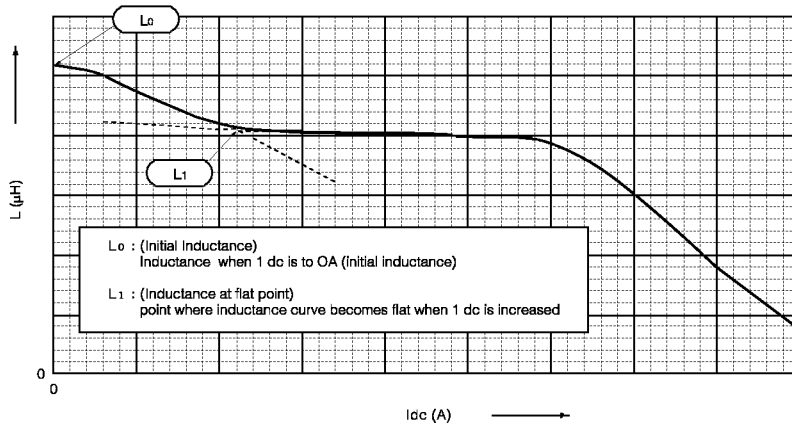(Note2) Concerning the definition of L_0 & L_1, please refer to "next page"
(Note3) Saturation current (I sat) is the current value at which inductance (L_1) decreases to 80% of initial value.
(Note4) Heat rating current (I_0) is the actual value of the current at which the temperature rise of coil becomes 40K when DC current flows.
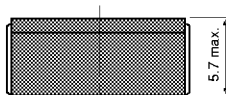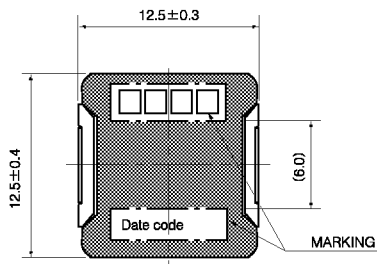Actually, to decide the heat rating, the temperature rise within the set shall be considered.
Concerning the heat rating current (I_0) when (ΔT) is decreased more, please contact us.

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■ L₀,L₁:Definition
DC Bias Characteristic

L₀

L₁

L₀ : (Initial Inductance)
Inductance when 1 dc is to 0A (initial inductance)

L₁ : (Inductance at flat point)
point where inductance curve becomes flat when 1 dc is increased

L (μH)

Idc (A)

■ Dimensions in mm (not to scale)

12.5±0.3

12.5±0.4

(6.0)

Date code

MARKING

5.7 max.

( ) : Reference value

0.6 min.   2.1 min.

8.0±0.2

5.0±0.1

8.2±0.2

1.2±0.2   (10.0)   1.2±0.2

0.05 min.: Clearance between
the Terminal face
and the core face

0.3 min.: Clearance between
the Terminal face
and the mold resin

1.5±0.2