

PRJ075-type Power Choke

1. Features

High performance (Isat) realized by metal dust core.

Low profile :Thickness. Max 5.0 mm.

Low loss realized with low DCR.

Capable of corresponding high frequency (1.0MHz)

100% lead (pb) free meet ROHS standard.

2. Application

DC/DC converter for CPU in Notebook PC.

Battery powered devices.

3. Type Designation

PRJ	075	1R0	M	N
(1)	(2)	(3)	(4)	(5)

Where

(1) Series No :

PRJ

(2) Size :

075 = 6.5mm × 7.6mm × 5.0mm

(3) Inductance Value :

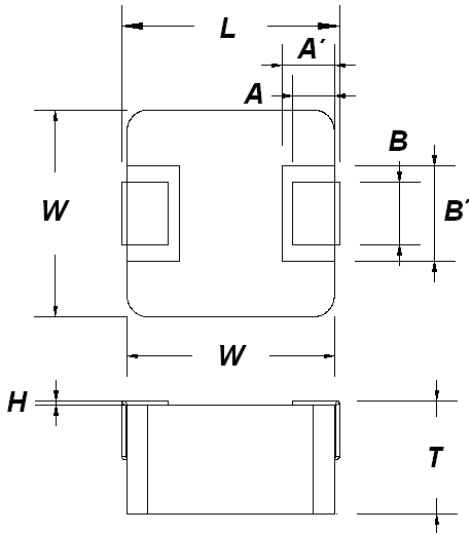
1R0 = 1.0uH

(4) Tolerance :

M = ± 20%

(5) Series Type : N Type

4. Outline Dimensions and Schematics : 單位(mm)



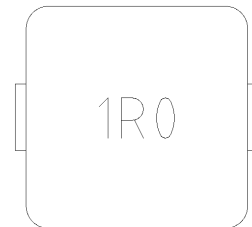
code 型號	Dimensions
L	7.25 ± 0.35
W	6.5 ± 0.2
T	4.8 ± 0.2
A	1.6 ± 0.3
A'	2.0 ± 0.1
B	1.2 ± 0.3
B'	1.8 ± 0.2
H	0.0~0.30
Plating	0.01~0.1

5. Marking and Date Code

5-1 Marking

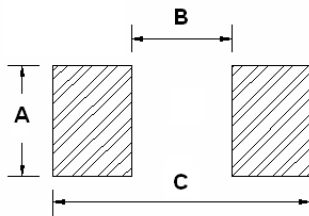
The inductor is marked with a 3-digit code

Example — 1.0 μH → 1R0



6. Recommend Land Pattern Dimensions

The customer shall determine the land dimensions shown above after confirming and safety.



A	2.5
B	3.0
C	8.5

Unit: mm

7. Specifications

Part Number	LO inductance (uH) @(0A)	Rdc (mΩ)		Heat Rating Current DC Amps Idc (A)	Saturation Current DC Amps Isat (A)
		Typical	Maximum	Typical	Typical
PRJ075-2R2MN	2.20	8.00	8.8	13.50	13.00
PRJ075-4R7MN	4.70	15.70	17.27	9.90	9.00
PRJ075-6R5MN	6.50	19.35	21.50	7.00	10.00
PRJ075-10RMN	10.00	38.50	42.30	5.00	5.80
PRJ075-12RMN	12.00	44.90	49.40	4.70	5.80
PRJ075-15RMN	15.00	55.90	61.80	3.78	4.40

* : If you require another part number please contact with PREJECTION Industrial.

Note 1 : All test data is referenced to 25°C ambient.

Note 2 : Idc : DC current (A) that will cause an approximate ΔT of 40°C

Note 3 : Isat : DC current (A) that will cause LO to drop approximately 20%

Note 4 : Operating Temperature Range - 55°C to + 125°C

Note 5 : The part temperature (ambient + temp rise) should not exceed 125°C under worse case operating conditions. circuit design , component placement , PWB trace size and thickness , airflow and other cooling provision all affect the part temperature. part temperature should be verified in the end application.

8. Current Characteristic

