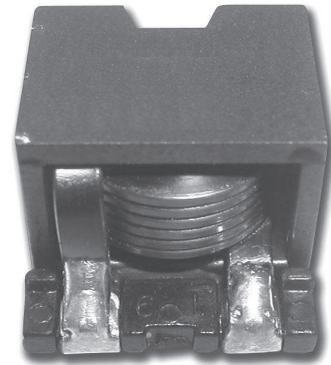


PB1212 SERIES

Power Cube

Features

- Low cost energy storage choke with high current for telecom, PLC and consumer market
- Nominal currents: up to 20 Amps
- Nominal inductance: from 0,5 μ H to 18.8 μ H
- Low profile with SMD format
- Low losses due rectangular wire is used
- Three soldering points to improve vibration test
- Rohs Compliance



Electrical specifications

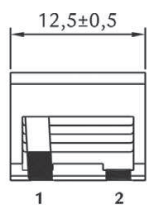
| Part Number | L ⁽¹⁾ (μ H) \pm 10% | I rms ⁽²⁾ (Amps) | I Sat ⁽³⁾ (Amps) | DCR (m Ω) TYP. | S.R.F. (MHz) MIN. |
|-------------|--|--------------------------------|--------------------------------|---------------------------|----------------------|
| PB1212-0R5 | 0,5 | 20 | 35 | 1,2 | 2 |
| PB1212-0R8 | 0,8 | 20 | 30 | 1,2 | 2 |
| PB1212-1R1 | 1,1 | 20 | 24,5 | 1,2 | 2 |
| PB1212-1R5 | 1,5 | 20 | 17,5 | 1,2 | 2 |
| PB1212-2R4 | 2,4 | 16 | 22 | 3,2 | 2 |
| PB1212-3R4 | 3,4 | 16 | 14 | 3,2 | 2 |
| PB1212-4R7 | 4,7 | 16 | 10 | 3,2 | 2 |
| PB1212-6R3 | 6,3 | 7,5 | 12,5 | 12,4 | 2 |
| PB1212-9R5 | 9,5 | 7,5 | 10 | 12,4 | 2 |
| PB1212-14R | 13,7 | 7,5 | 7 | 12,4 | 2 |
| PB1212-19R | 18,8 | 7,5 | 5 | 12,4 | 2 |

Note 1: Measured at 100kHz, 1Vac @ 25 °C ambient.

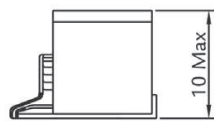
Note 2: Current with a 55 °C temperature rise from 25 °C ambient (natural cooling).

Note 3: DC current with the inductance drops 10% (typ) from the value without DC current

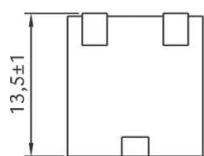
Dimensions



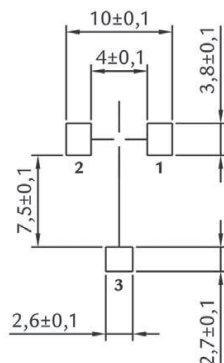
Front View



Lateral View



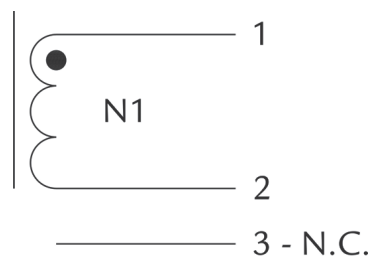
Bottom View



Top View

Recommended PCB Layout

Electrical Diagram



Notes:

- Coplanarity < 150 μ m