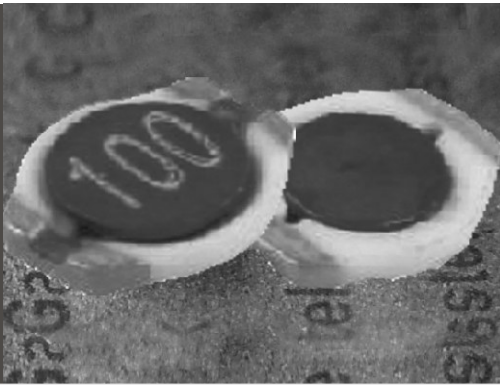


SMD POWER INDUCTORS

Series PN - C



FEATURES

- ◆ Excellent solder ability and high heat resistance.
- ◆ They are characterized by low profile, low DC resistance and high current handling capacities.
- ◆ It has high Q value at high frequency and high self-response frequency.
- ◆ Packed in embossed carrier tape and can be used by automatic mounting machine.
- ◆ The products contain no lead and also support lead-free soldering.

APPLICATIONS

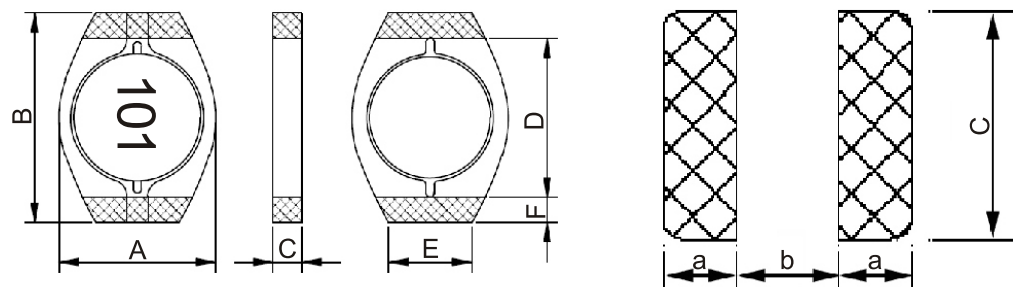
- ◆ Excellent as DC-DC Converter used in notebooks computers, PDA and mobile hand-phones. Step-down converters, flash memory.

PRODUCT IDENTIFICATION

PN 05 C 10 1 M 1U2
a **b** **c** **d** **e** **f** **g**

- a : Type of products - SMD Power Inductors
 b : Dimension(mm) - 6.6 max X 5.5 max
 c : Materials - Base on Ceramic
 d : Height (mm) - 10 = 1.2 max. 20 : 2.0 max.
 e : Packing(PCS / Box) - 1 = 1000
 f : Tolerance - M : ±20%
 g : Inductance - 10U = 10 μH, 220U = 220 μH, 1M = 1000 μH

SHAPES & DIMENSIONS



Unit : mm

Type	A	B	C	D	E	F	a	b	c
PN05C10	5.6 max	6.6 max	1.2 max	4.9 Ref.	2.5 Ref.	0.75 Ref.	4.06	6.86	3.56
PN05C20	5.6 max	6.6 max	2.0 max	4.9 Ref.	2.5 Ref.	0.75 Ref.	4.06	6.86	3.56

SMD POWER INDUCTORS

Series PN - C ELECTRICAL CHARACTERISTICS

Test Frequency 0.1V/100KHz

Part Number	Inductance (μ H)	DCR (Ω)	I _{sat} (A)Max.	I _{rms} (A)Typ
PN05C101M1U2	1.2 \pm 20%	0.08	2.100	1.700
PN05C101M1U5	1.5 \pm 20%	0.10	1.900	1.500
PN05C101M2U2	2.2 \pm 20%	0.12	1.600	1.400
PN05C101M3U3	3.3 \pm 20%	0.16	1.300	1.200
PN05C101M4U7	4.7 \pm 20%	0.20	1.100	1.100
PN05C101M6U8	6.8 \pm 20%	0.32	0.900	0.850
PN05C101M10U	10U \pm 20%	0.41	0.800	0.750
PN05C101M15U	15U \pm 20%	0.55	0.650	0.600
PN05C101M22U	22U \pm 20%	0.85	0.500	0.520
PN05C101M33U	33U \pm 20%	1.30	0.400	0.420
PN05C101M47U	47U \pm 20%	1.80	0.350	0.360
PN05C101M68U	68U \pm 20%	2.50	0.300	0.300
PN05C101M100U	100U \pm 20%	3.50	0.250	0.260
PN05C101M150U	150U \pm 20%	5.00	0.180	0.210
PN05C101M220U	220U \pm 20%	7.00	0.160	0.180
PN05C101M330U	330 \pm 20%	15.00	0.130	0.130
PN05C201M1U	1.0 \pm 20%	0.05	2.500	2.300
PN05C201M1U5	1.5 \pm 20%	0.06	2.200	2.100
PN05C201M2U2	2.2 \pm 20%	0.07	1.800	1.700
PN05C201M3U3	3.3 \pm 20%	0.12	1.400	1.300
PN05C201M4U7	4.7 \pm 20%	0.15	1.200	1.100
PN05C201M6U8	6.8 \pm 20%	0.20	1.100	1.000
PN05C201M10U	10 \pm 20%	0.30	1.000	0.900
PN05C201M15U	15 \pm 20%	0.40	0.800	0.700
PN05C201M22U	22 \pm 20%	0.54	0.600	0.500
PN05C201M33U	33 \pm 20%	0.74	0.500	0.450
PN05C201M47U	47 \pm 20%	1.10	0.450	0.400
PN05C201M68U	68 \pm 20%	1.60	0.350	0.350
PN05C201M100U	100 \pm 20%	2.30	0.300	0.300
PN05C201M150U	150 \pm 20%	3.50	0.250	0.250
PN05C201M220U	220 \pm 20%	5.70	0.200	0.180
PN05C201M330U	330 \pm 20%	8.20	0.160	0.160
PN05C201M470U	470 \pm 20%	10.80	0.140	0.120
PN05C201M680U	680 \pm 20%	17.20	0.120	0.100
PN05C201M1M	1000 \pm 20%	22.60	0.080	0.080

Note:

1. Inductance is measured by LCR-meter 4284A(HP) or equivalent.
2. DC Resistance is measured by HP4338B Milliohms Meter or equivalent.
3. Rated current is measured by LCR-meter 3260B (WK) & DC Bias 3265B(WK).
4. I_{sat}: DC current at which the inductance drops 10% (typ) from its value without current.
5. I_{rms}: Average current for 40°C temperature rise from 25°C ambient.