

SMD POWER INDUCTORS

Series PJ *Shielded*



FEATURES

- ◆ Ferrite core and with excellent shielding construction.
- ◆ Low resistance, they provide large current, and used for power line.
- ◆ This component is compliant with RoHS legislation and also support lead-free soldering.

APPLICATIONS

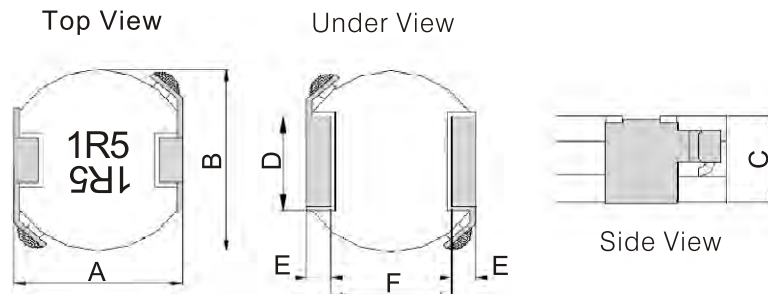
- ◆ Application for power supply or DC to DC converter circuit and charger circuit ; such as LCD-TV 、 PDP-TV 、 HDD 、 PC...etc

PRODUCT IDENTIFICATION

PJ 07 X 35 2 M 1U5
 a b c d e f g

- a : Type of products - SMD Power Inductors
 b : Dimension(mm) - 07 : 7.0 X 7.0, 10 : 10.1 X 10
 c : Materials - Design code
 d : Thickness (mm) - 35 = 3.50, 45 = 4.5
 e : Packing(PCS / Box) - 2 = 2,000
 f : Tolerance - M : $\pm 20\%$, 3 : $\pm 30\%$
 g : Inductance - 10U = 10 μ H, 220U = 220 μ H, 1M = 1000 μ H

SHAPES & DIMENSIONS



Unit : mm

Type	A ± 0.5	B ± 0.5	C max.	D ± 0.2	E ± 0.2	F ± 0.5
PJ07X35	7.0	7.0	3.50	1.7	1.7	3.6
PJ07X45	7.0	7.0	4.50	1.7	1.7	3.6
PJ10X45	10.1	10.0	4.50	3.0	1.2	7.7

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ELECTRICAL CHARACTERISTICS

Part Number	Inductance L0 (μH)	Test Frequency (Hz)	RDC (Ω) ± 20%	I _{rms} (A) max.	I _{sat} (A) max.
PJ07X352□3U3	3.3	0.25/100K	21.0	5.00	6.00
PJ07X352□4U7	4.7	0.25/100K	25.0	4.00	5.00
PJ07X352□10U	10	0.25/100K	50.0	2.50	3.20
PJ07X352□15U	15	0.25/100K	71.0	1.80	2.10
PJ07X352□33U	33	0.25/100K	160.0	1.20	1.80
PJ07X352□100U	100	0.25/100K	450.0	0.75	0.90
PJ07X352□330U	330	0.25/100K	1500.0	0.40	0.45
PJ07X352□1M	1000	0.25/1K	4300.0	0.13	0.15
PJ07X452□1U5	1.5	0.25/100K	8.4	6.50	7.00
PJ07X452□3U3	3.3	0.25/100K	19.0	5.90	6.00
PJ07X452□4U7	4.7	0.25/100K	25.0	4.00	5.00
PJ07X452□5U	5	0.25/100K	22.0	3.90	2.90
PJ07X452□10U	10	0.25/100K	36.0	2.10	2.70
PJ07X452□15U	15	0.25/100K	48.0	1.80	2.60
PJ07X452□22U	22	0.25/100K	88.0	2.00	2.50
PJ07X452□33U	33	0.25/100K	128.0	1.80	2.00
PJ07X452□100U	100	0.25/100K	286.0	0.80	0.90
PJ10X452□1U	1	0.25/100K	6.5	10.00	11.00
PJ10X452□1U5	1.5	0.25/100K	8.1	9.00	10.00
PJ10X452□2U5	2.5	0.25/100K	10.5	7.00	7.50
PJ10X452□3U8	3.8	0.25/100K	13.0	5.50	6.00
PJ10X452□5U2	5.2	0.25/100K	22.0	5.00	5.50
PJ10X452□7U	7	0.25/100K	27.0	4.50	4.80
PJ10X452□10U	10	0.25/100K	35.0	4.00	4.40
PJ10X452□15U	15	0.25/100K	50.0	3.20	3.60
PJ10X452□22U	22	0.25/100K	73.0	2.60	2.90

1. All test data referenced to 25°C ambient.

2. Testing Instrument : L: HP4284A, CH3252, CH1320 LCR METER RDC : CH1320 MICRO OHMMETER.

3. I_{rms} : Value obtained when DC current flows and the coil temperature to risen $\Delta T \leq 40^\circ\text{C}$.

4. I_{sat} : Value obtained when DC current flows and the nominal value of inductance has fallen by 20%.

5. Operating temperature range: -20 to +85°C (Including self-temperature rise)

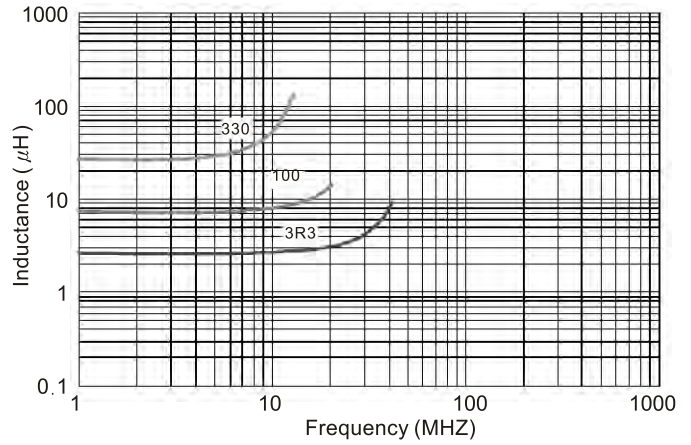
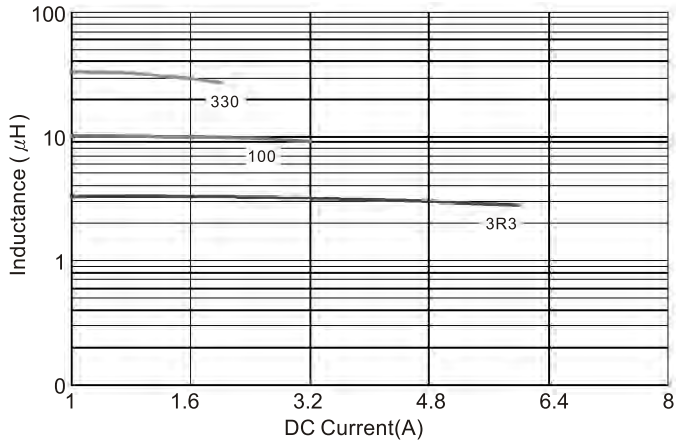
6. Special inquiries besides the above common used types can be met on your requirement.

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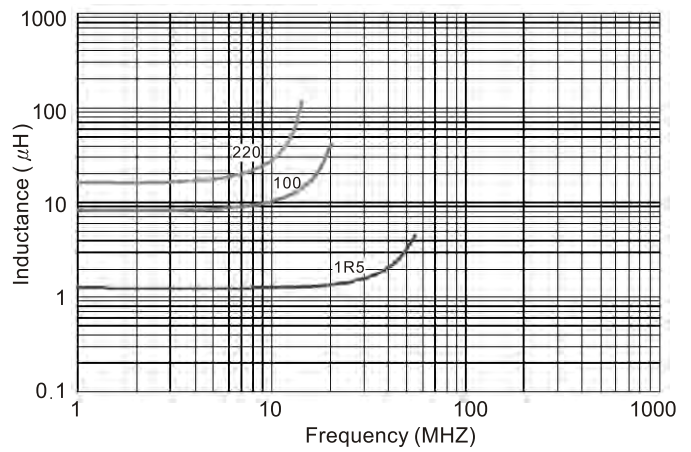
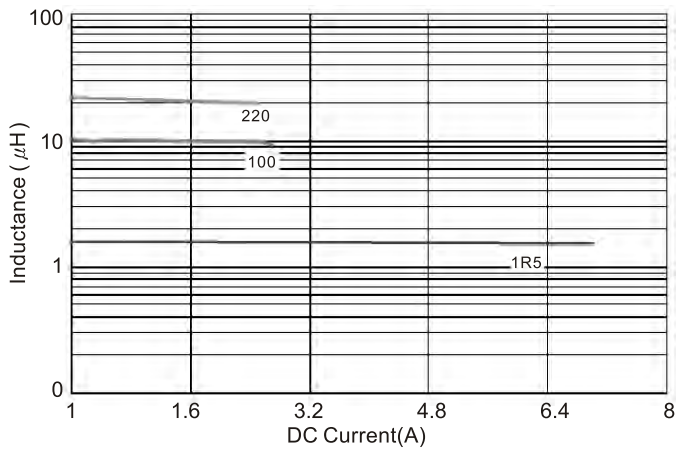
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ELECTRICAL CHARACTERISTICS

PJ07X35



PJ07X45



PJ10X45

