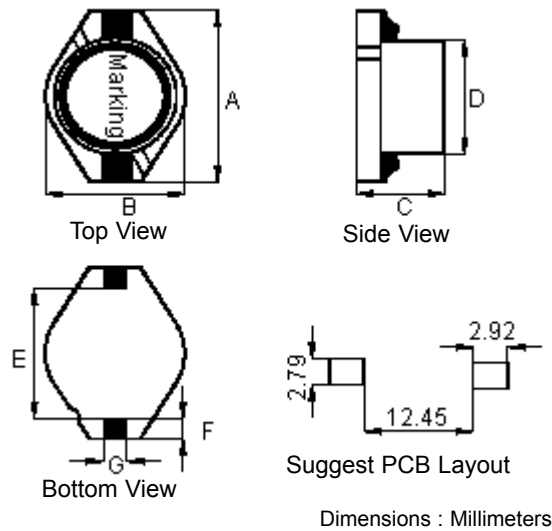


SMD Power Inductor



Configurations and Dimensions



A	18.54 mm	(Maximum)
B	15.24 mm	(Maximum)
C	7.62 mm	(Maximum)
D	12.70 ±0.3 mm	-
E	12.70 mm	(Reference)
F	2.54 mm	(Reference)
G	2.54 mm	(Reference)

Marking: 100 YY: Year
YYWW WW:Week

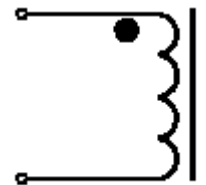
Electrical Characteristics (at 25°C)

Test Condition		
100KHz 0.1V	L	10μH ±20%
at 25°C	DCR	40mΩ (Maximum)
100KHz 0.1V I _{rms} = 3.9A	L at I _{rms}	ΔT40°C (Maximum)

Operating temperature : -55°C to +130°C

Note : I_{rms} : Temperature Rise 40°C

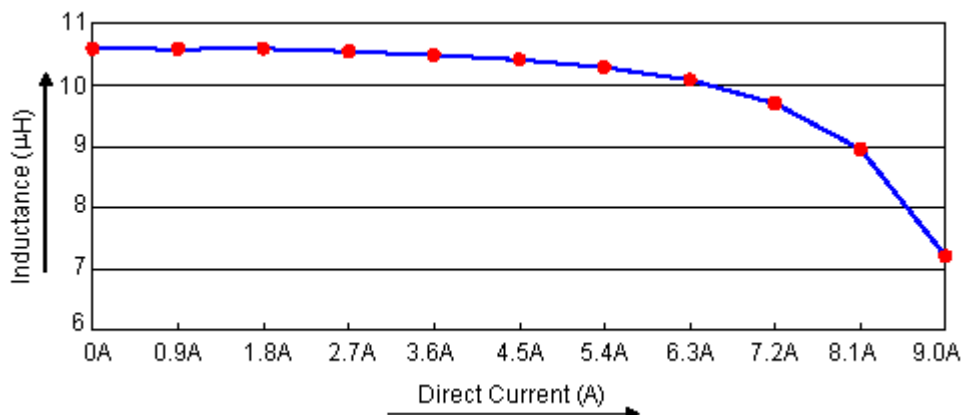
Schematic Diagram



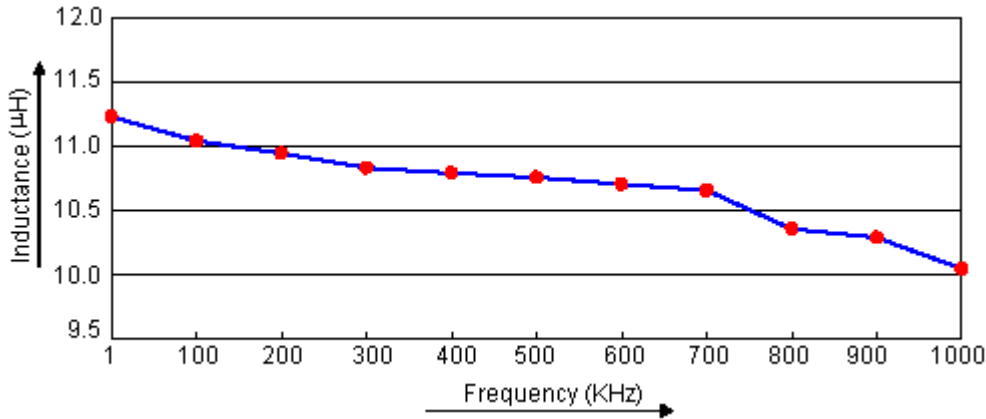
Note:

1. Wire Ø0.40mm x 2P 2UEWF 155°C
2. 12.5TS (Reference)

Electric Characteristics

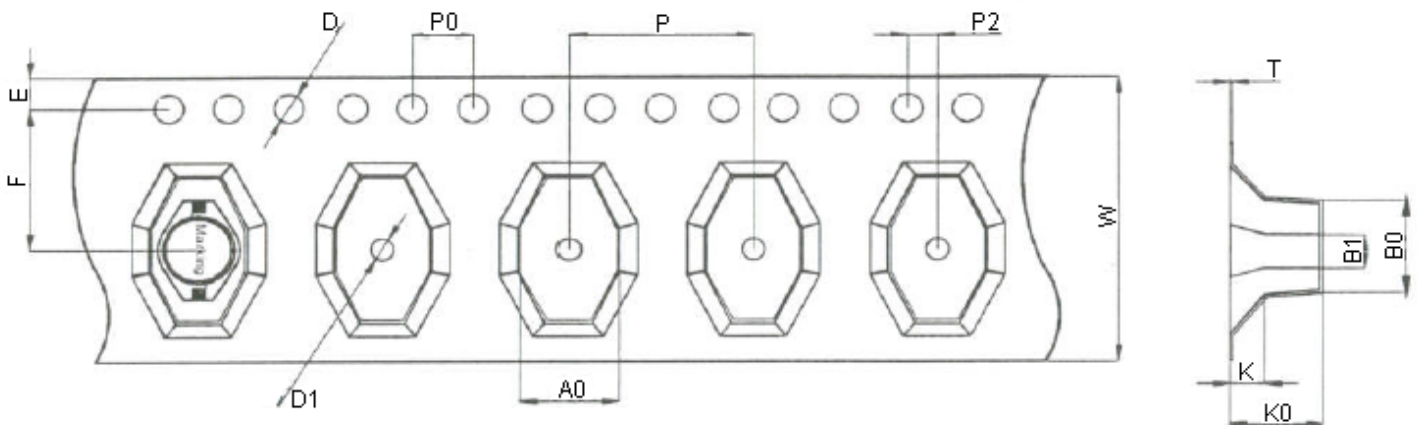


Electric Characteristics



Package Specification (Unit: mm)

Encapsulation Mode



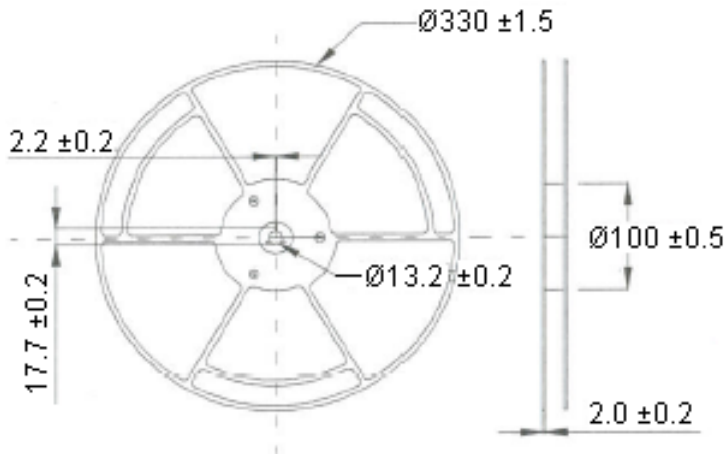
Dimension (mm)

P	P0	P2	D	D1	W	E	F	B0	K0	A0	T
24.0 ±0.1	4.0 ±0.1	2.0 ±0.1	1.5 ±0.1	2.0 (Minimum)	32.0 ±0.3	1.75 ±0.1	14.2 ±0.1	18.76 ±0.1	7.4 ±0.1	14.64 ±0.1	0.40 ±0.05

SMD Power Inductor



Reel Size



Dimensions : Millimeters

Packaging List

No.	Packaging Part	Reference Dimension	Material	Quantity
1	Reel	13 Inches	Plastic	300 Pieces/Reel

Reliability Test

Test Item	Specifications	Test Method and Remarks
Operating temperature range	-55°C to +130°C	Including temperature rise due to self-generated heat.
Storage condition	Ambient temperature : 0°C to 40°C Humidity : Below 70%RH	To maintain the solderability of terminal electrodes, care must be taken to control temperature and humidity in the storage area.
Moisture sensitivity	Appearance : No abnormality No damage DCR change : within ±20% Inductance change : within ±20%	According to J-STD-020B level 3 Test condition : 60°C 60%RH Test duration : 40 hours Recovery : 1 to 2 hours of recovery under the standard condition after the removal from the test chamber.
Solderability	All termination shall exhibit a continuous solder coating free from defects for a minimum of 90% of the surface area of any individual lead.	According to J-STD-002B Steam aging category : 97°C 98%RH Steam aging duration : 8 hours Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0/-0.5 seconds.

SMD Power Inductor



Material List

No.	Item	Material Description
1	Core	N5D DR9.7 x 5.8 N5D RI12.7 x 5.7 x 10.8
2	Wire	Ø0.4mm x 2P 2UEWF 155°C
3	Solder (Lead-free)	99.3%Sn/0.7%Cu
4	Glue	TH320D/TH320-3
5	Base	DR13-RT-A DAP

Part Number Table

Description	Part Number
SMD Power Inductor	MCBFS7330-100MU

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