SPECIFICATION HISTORY LIST

PROD. NAME	Shielded SMD Power Inductor	PART NO.	SRR5028 SERIES

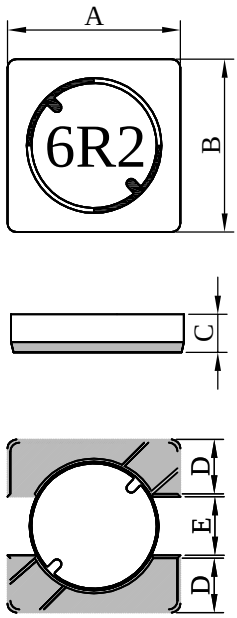
REV.	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
A	20091008	Released	Nick Chen	Nick Chen	Miz Hsieh
B	20100511	Modify the operature temperature	Nick Chen	Nick Chen	Miz Hsieh
C	20130124	Modify the specification form	Nick Chen	Nick Chen	Miz Hsieh
D	20130611	Add Inductance 181Y	Nick Chen	Nick Chen	Miz Hsieh
E	20150824	ModifyReliability test and Package weight Modify the 3D picture	Nick Chen	Nick Chen	Miz Hsieh
F	20161212	Modify the specification form	Nick Chen	Nick Chen	Miz Hsieh

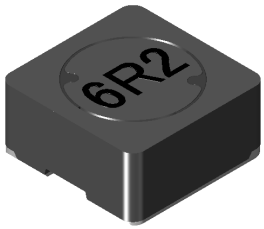
BOURNS INDUCTIVE COMPONENTS

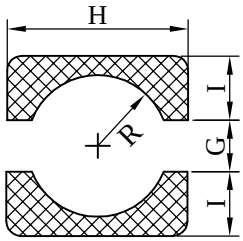
SPECIFICATION

PROD. NAME	Shielded SMD Power Inductor	PART NO.	SRR5028 SERIES		
		REV.	20161212	PAGE	1

Ⅰ．Configuration and dimensions：







(PCB Pattern)

Unit：m/m

A	B	C	D	E	G	H	I	R
5.80 ±0.3	5.80 ±0.3	2.80 ±0.2	1.90 typ.	2.00 typ.	1.90 ref.	6.30 ref.	2.20 ref.	2.20 ref.

Ⅱ．Description：

a．Ferrite drum core construction.

b．Magnetically shielded.

c．Enamelled copper wire：H class

d．Product weight：0.38g（ref.）

e．Moisture sensitivity Level 1

f．Products comply with RoHS' requirements

g．Halogen free available

Ⅲ．General specification：

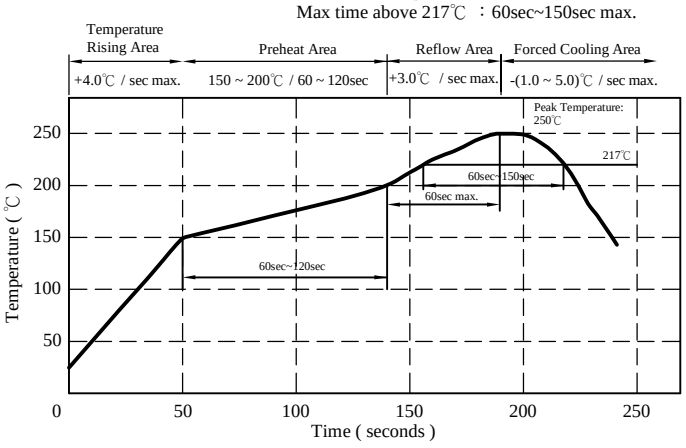
a．Storage temp.：-40℃ ----+125℃

b．Operating temp.：-40℃----+125℃

(Temp. rise included)

c．Resistance to solder heat：250℃.10 secs.

Peak Temp：250℃ max.
Max. Peak Temp - 5℃：30sec max.
Max time above 217℃ ：60sec~150sec max.



BOURNS INDUCTIVE COMPONENTS

SPECIFICATION

PROD. NAME	Shielded SMD Power Inductor	PART NO.	SRR5028 SERIES		
		REV.	20161212	PAGE	2

Ⅳ . Electrical characteristics：

Part No.	Inductance (μH)	SRF (MHz) typ.	RDC (Ω) typ.	RDC (Ω) max.	Irms (A) typ.	Isat (A) typ.
SRR5028-2R6Y	2.6 ±30%	55.0	0.020	0.030	3.00	2.70
SRR5028-3R0Y	3.0 ±30%	45.0	0.023	0.030	2.80	2.50
SRR5028-4R2Y	4.2 ±30%	40.0	0.026	0.035	2.50	2.20
SRR5028-5R3Y	5.3 ±30%	45.0	0.033	0.040	2.30	1.90
SRR5028-6R2Y	6.2 ±30%	40.0	0.036	0.045	2.20	1.80
SRR5028-8R2Y	8.2 ±30%	28.0	0.043	0.055	2.10	1.60
SRR5028-100Y	10.0 ±30%	25.0	0.056	0.070	1.50	1.40
SRR5028-120Y	12.0 ±30%	20.0	0.065	0.080	1.46	1.25
SRR5028-150Y	15.0 ±30%	20.0	0.074	0.100	1.38	1.15
SRR5028-180Y	18.0 ±30%	20.0	0.088	0.110	1.25	1.10
SRR5028-220Y	22.0 ±30%	18.0	0.098	0.120	1.15	1.00
SRR5028-270Y	27.0 ±30%	16.0	0.124	0.160	1.05	0.90
SRR5028-330Y	33.0 ±30%	15.0	0.164	0.190	0.90	0.78
SRR5028-390Y	39.0 ±30%	14.0	0.176	0.210	0.86	0.72
SRR5028-470Y	47.0 ±30%	13.0	0.199	0.250	0.82	0.65
SRR5028-560Y	56.0 ±30%	11.0	0.264	0.300	0.72	0.60
SRR5028-680Y	68.0 ±30%	10.0	0.287	0.350	0.62	0.56
SRR5028-820Y	82.0 ±30%	9.0	0.338	0.430	0.52	0.50
SRR5028-101Y	100.0 ±30%	8.5	0.378	0.480	0.45	0.45
SRR5028-151Y	150.0 ±30%	6.5	0.715	0.900	0.33	0.35
SRR5028-181Y	180.0 ±30%	6.3	0.784	1.000	0.32	0.31
SRR5028-221Y	220.0 ±30%	6.0	0.969	1.250	0.30	0.30
SRR5028-331Y	330.0 ±30%	4.5	1.660	2.000	0.20	0.20
SRR5028-681Y	680.0 ±30%	2.8	3.630	4.300	0.13	0.14

1). Electrical specifications at 25℃

2). Inductance test freq. : 100kHz / 0.1V

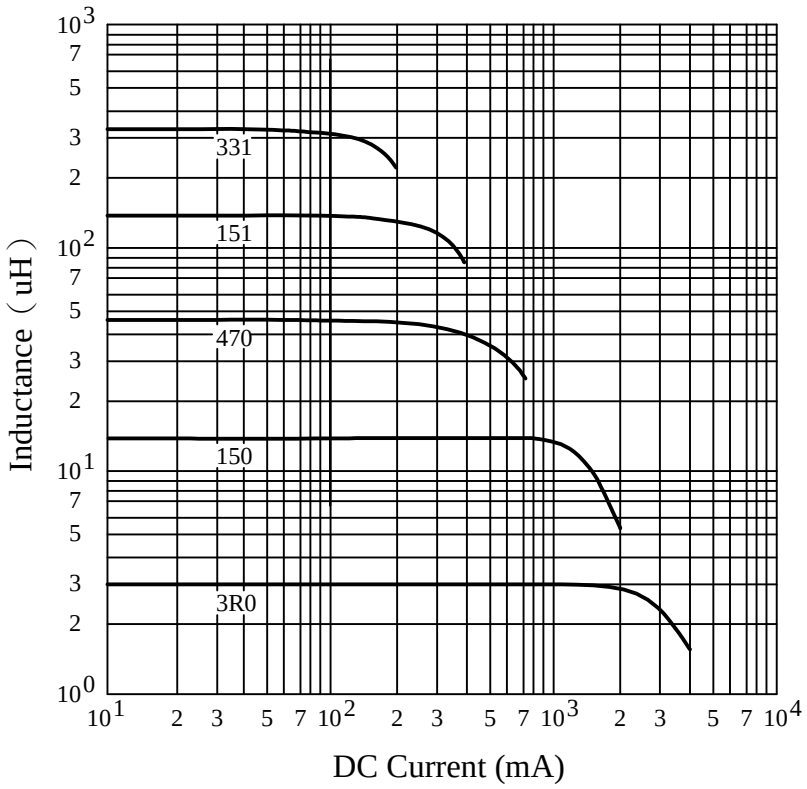
3). Irms Base on temp rise 30℃ max.

4). Isat Base on △L/L0A=35% typ.

SPECIFICATION

PROD. NAME	Shielded SMD Power Inductor	PART NO.	SRR5028 SERIES		
		REV.	20161212	PAGE	3

V ．Curve：

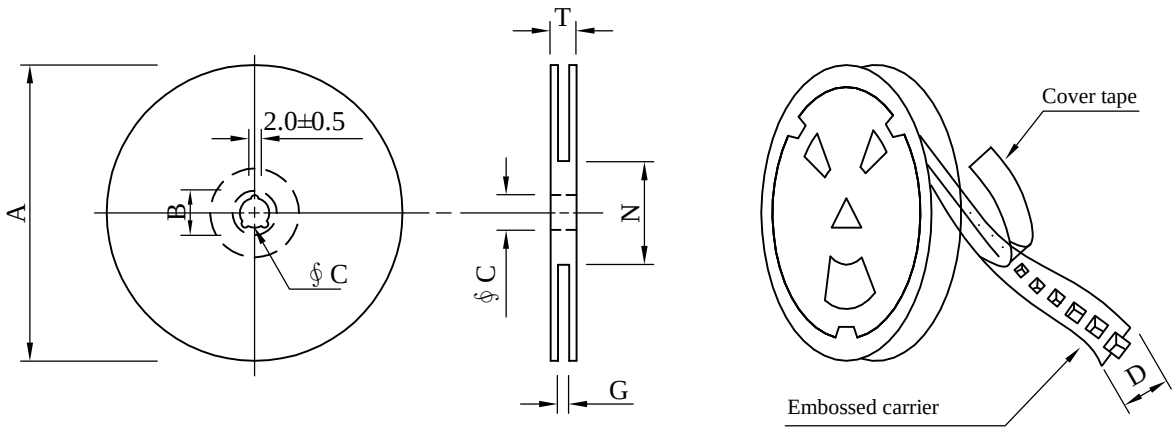


SPECIFICATION

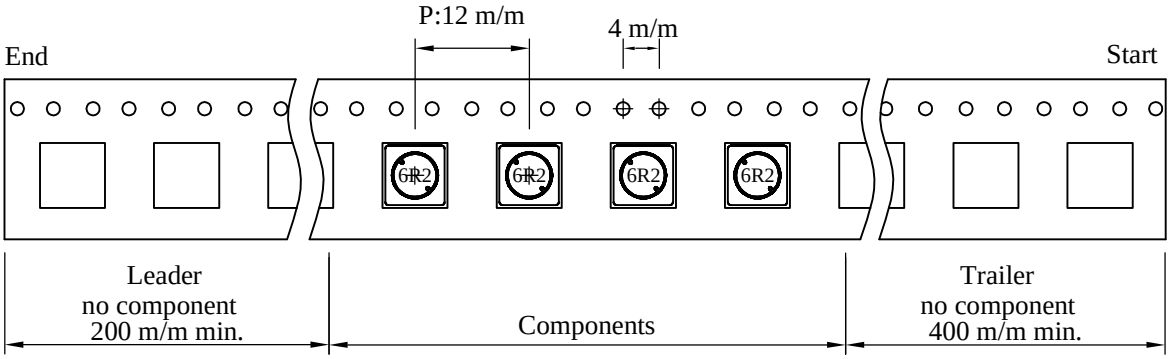
PROD. NAME	Shielded SMD Power Inductor	PART NO.	SRR5028 SERIES		
		REV.	20161212	PAGE	4

Ⅵ．Packaging information：

(1) Configuration



※Carrier tape width : D



User direction of feed

(2) Dimensions Unit:m/m

Style	A	B	C	D	G	N	T
07 - 16	178	21±0.8	13	16	18^{+0}	50^{-0}	20.5
13 - 16	330	21±0.8	13±0.5	16	18^{+0}	50^{-0}	22.4

(3) Q'TY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SRR5028	400	270	07 - 16	12,000	9.6	42 x 41 x 24
SRR5028	1,500	1000	13 - 16	9,000	7.4	38 x 37 x 22

SPECIFICATION

PROD. NAME	Shielded SMD Power Inductor	PART NO.	SRR5028 SERIES		
		REV.	20161212	PAGE	5

Ⅶ．Reliability test：

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 125±2℃ 2.Time:96±2 hours.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40℃ ~ +125℃ 2.Number of cycle:100 cycle 3.Dwell time:30 minutes	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature：85±2 ℃ 2.Humidity: 85% RH. 3.Time:96±2 Hours	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
4.Operational Life	JESD22-A 108	1.Temperature: 125℃ (Temp. rise included) 2.Time:96±2 hours. 3.Rated current	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
5.External Visual	JESD22-B 101 & MIL-STD-883 Method 2009	Inspect product constructions, marking and workmanship.	1.No pollution on the surface of products. 2.Clear marking. 3.No crack.
6.Physical Dimensions	JESD22-B 100	Verify physical dimensions to the applicable product detail specification.	Per product specification standard
7.Resistance to solvents	MIL-STD-202 Method 215	Immerse into solvent for 3±0.5 minutes & brush 10 times for 3 cycles.	1.No body change in apperarance. 2.No marking blurred. 3.Inductance shall not change more than ±20%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitued : 10-2000-10 Hz, 1.5 mm. 2.Direction:X, Y, Z 3.Test duration:2 hours for each direction, 6 hours in total.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210 & J-STD020D.1	1.Highest temperature：250±5℃. 2.Time（temp.≧ 217℃）：60~150 Seconds. 3.IR reflow times：3 times.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
10.Saturation Current	JIS C 6436 & User SPEC.	1.Applied rated current for 5 seconds. 2.Saturation current	Inductance shall not drop more than 35% typ.
11.Over load	JIS C 6436 & User SPEC.	1.Applied one and half rated current for a period of 5 minutes. 2.Rated current	No electrical or mechanical damage
12.Temperature Rise Current	JIS C 6436 & User SPEC.	1.Applied rated current for 10 minutes. 2.Temperature measure by digital surface thermometer. 3.Irms current	Surface temperature rise is less than 30℃max.
13.Solderability Test	J-STD-002 & JESD22-B 102	1.Baking in pre-testing： 150±5℃ / 16Hours±30 min. 2.Peak temperature：240±5℃ 3.Time（temp.≧217℃）：60~150 seconds. 4.IR reflow times：1 time.	More than 95% soldering coverage min on terminations.
14.Electrical Characteriazation	MIL-STD-202 Method 304 & User SPEC.	1.Operating temperature：-40℃~125℃ 2.Room temperature：25℃.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
15.Drop	CNS-C6354 & GB/T 2423.8	1.Products shall be mounted on SPEC. PCB and dropped down from a height of 1m 2.Drop total time：6 times (Every side of sample drop 2 times)	1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage.
16.Terminal Strength Test	IEC 60068-2-21	1.Apply push force to samples mounted on PCB. 2.Force of 1.8 kg for 60±1 seconds.	After test, inductors shall be no mechanical damage.

单击下面可查看定价，库存，交付和生命周期等信息

>>Bourns(伯恩斯)