



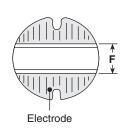
SS-264 R1 AHA 6/30/06

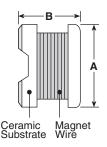
Fixed High-Frequency Inductors ISO 9001:2000 Type SDR 0604 (SMD Power Chokes) TS-16949

1. Scope

This specification applies to SMD type choke coil SDR0604 produced by KOA Speer Electronics, Inc.

2. Dimensions & Construction

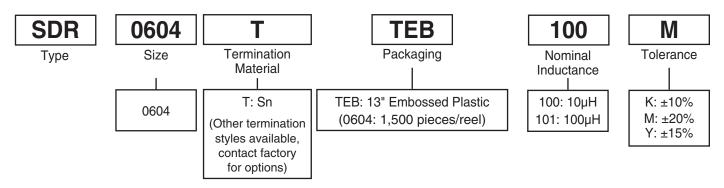




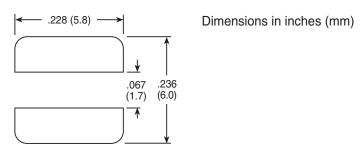
	Dimensions inches (mm)			
Size	Α	В	F (typ.)	
0604	.220±.008 (5.6±0.2)	.177±.012 (4.5±0.3)	.071 (1.8)	

3. Type Designation

Type designation shall be as the following form.



4. PCB Pattern



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5. Applications & Ratings

Part Designation	Nominal Inductance L (µH) @ 1KHz	Inductance Tolerance	DC Resistance Maximum (Ω)	Allowable DC Current Maximum (Amps)	Operating Temperature Range	Storage Temperature Range
SDR0604TTEB3R3M	3.3	M: ±20%	0.06	2.0		
SDR0604TTEB3R9M	3.9		0.07	1.9		
SDR0604TTEB4R7M	4.7		0.07	1.8		
SDR0604TTEB5R6M	5.6		0.08	1.7		
SDR0604TTEB6R8M	6.8		0.08	1.6		
SDR0604TTEB8R2M	8.2		0.09	1.5		
SDR0604TTEB100M	10		0.10	1.45	-40°C to +85°C	
SDR0604TTEB120M	12		0.12	1.4		
SDR0604TTEB150Y	15	Y: ±15%	0.14	1.3		
SDR0604TTEB180Y	18		0.15	1.25		-40°C to +125°C
SDR0604TTEB220Y	22		0.19	1.1		
SDR0604TTEB270Y	27		0.22	1.0		
SDR0604TTEB330K	33		0.25	0.88		
SDR0604TTEB390K	39		0.32	0.80		
SDR0604TTEB470K	47		0.37	0.72		
SDR0604TTEB560K	56		0.42	0.68		
SDR0604TTEB680K	68		0.52	0.62		
SDR0604TTEB820K	82	K: ±10%	0.60	0.58		
SDR0604TTEB101K	100		0.70	0.52		
SDR0604TTEB121K	120		0.93	0.48		
SDR0604TTEB151K	150		1.10	0.40		
SDR0604TTEB181K	180		1.38	0.38		
SDR0604TTEB221K	220		1.57	0.35		



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6. Mechanical Performance

Item	Performance	Test Method (JIS C 5321)
Resistance to Vibration	Change of Inductance: ±5%	To put the sample on paper phenolic resin laminate base and to vibrate at the frequency of 10-55-10 Hz for each X, Y, Z direction for 2 hours and to sweep it at a full vibration width .059" (1.5mm) for 1 minute.
Resistance to Soldering	No remarkable visual damage	To immerse into Solder bath of 260 \pm 5 °C for 10 \pm 1 seconds.
Solderability	The electrode shall be covered with new solder	To immerse for 3 \pm 0.5 seconds at 235 \pm 5 $^{\circ}\text{C}$

7. Environmental Tests

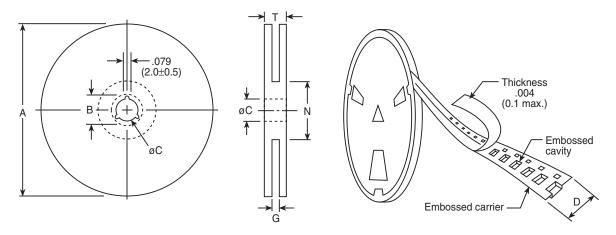
Item	Performance	Test Method (JIS C 5321)
Resistance to Cold	Change of Inductance: ±10%	To leave in a bath at -40 \pm 2 °C for 1,000 hours.
Temperature Cycling	Change of Inductance: ±10%	To keep at -25°C \sim 85°C for 30 minutes in 5 cycles and leave for 10 \sim 15 minutes in normal temperature at the time of transition between low temperatures and high temperatures
Resistance to Heat	Change of Inductance: ±10%	To leave in a bath at 85 ± 2 °C for 2 hours. (Resistance to heat of Ferrite Core: 120 °C)
T. C. R	Change of Inductance: ±5%	20°C shall be standard and change of inductance shall be measured at -25°C \sim 85°C.
Resistance to Damp (Steady State)	Change of Inductance: ±10%	Temperature: 60 ± 2 °C Humidity: 90 ~ 95% Test hours: 1,000 hours
Endurance (Under Damp and Load)	Change of Inductance: ±10%	Temperature: 40 ± 2 °C Humidity: $90 \sim 95\%$ To supply allowable current for 1,000 hours continually
Endurance (Under high Temperature)	Change of Inductance: ±10%	Temperature: 85 ± 2 °C To supply allowable current for 1,000 hours



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8. Packaging

Carrier Tape Reels



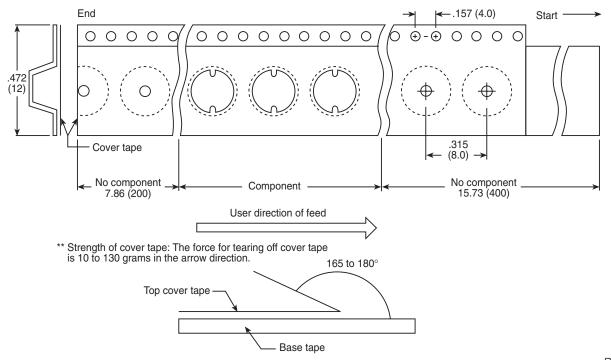
Materials:

Paper Plastics

Dimensions in inches (mm)

Туре	Α	В	С	D	G	N	Т
0604	12.99	.512	.512	.472	.551	1.97	.724
	(330)	(12 ± 0.5)	(13 ± 0.5)	(12)	(14 max)	(50 min)	(18.4)

^{*} SDR0604: 1,500 Pieces/Reel



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