



Features

- Available in E6 series
- Low unit height of 3.3 mm
- High current
- RoHS compliant*

Applications

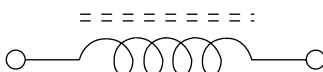
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

SRR0603 Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
SRR0603-1R5ML	1.5	± 20	20	7.96	95.0	0.032	2.20	3.50
SRR0603-2R5ML	2.5	± 20	19	7.96	90.0	0.040	2.00	2.95
SRR0603-3R3ML	3.3	± 20	16	7.96	85.0	0.055	1.80	2.60
SRR0603-4R7ML	4.7	± 20	13	7.96	45.0	0.070	1.60	2.20
SRR0603-6R8ML	6.8	± 20	13	7.96	32.0	0.100	1.20	1.75
SRR0603-100ML	10	± 20	16	2.52	25.0	0.12	1.10	1.50
SRR0603-150ML	15	± 20	16	2.52	25.0	0.18	0.90	1.20
SRR0603-220ML	22	± 15	16	2.52	20.0	0.27	0.70	1.05
SRR0603-330KL	33	± 10	15	2.52	16.0	0.43	0.60	0.83
SRR0603-470KL	47	± 10	13	2.52	13.0	0.55	0.50	0.73
SRR0603-680KL	68	± 10	11	2.52	10.0	0.90	0.40	0.53
SRR0603-101KL	100	± 10	22	0.796	9.0	1.50	0.30	0.44
SRR0603-151KL	150	± 10	22	0.796	8.0	1.90	0.25	0.39
SRR0603-221KL	220	± 10	20	0.796	5.0	2.70	0.20	0.31
SRR0603-331KL	330	± 10	18	0.796	4.5	4.20	0.18	0.24
SRR0603-471KL	470	± 10	17	0.796	4.0	6.70	0.15	0.19
SRR0603-681KL	680	± 10	13	0.796	3.5	10.50	0.12	0.15
SRR0603-102KL	1000	± 10	20	0.252	3.0	14.00	0.10	0.13

Electrical Schematic



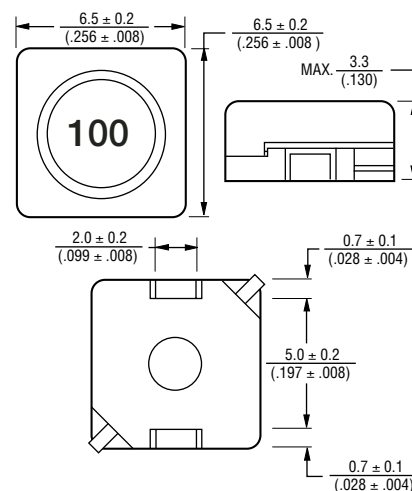
General Specifications

Test Voltage1 Volt
 Reflow Soldering230 °C; 50 sec max.
 Operating Temperature ..-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature...-40 °C to +125 °C
 Resistance to Soldering Heat
260 °C for 5 sec.

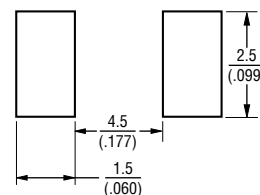
Materials

Core Material.....Ferrite DR & RI
 WireEnamelled Copper
 BaseLCP E4008
 Terminal.....Cu/Ni/Sn
 Rated Current...Ind. drop 10 % typ at I sat
 Temperature Rise .40 °C max at rated I rms
 Packaging.....1000 pcs. per reel

Product Dimensions



Recommended Layout



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

BOURNS®

Technical drawing of a 35mm film carrier, showing front, side, and end views with dimensions in inches and millimeters.

Front View Dimensions:

- Overall Diameter: 178.0 ± 0.5 (7.00) DIA.
- Inner Diameter: 21.0 ± 0.8 (.827 $\pm$.031)
- Inner Diameter: 13.0 ± 0.5 (.512 $\pm$.020) DIA.

Side View Dimensions:

- Top Flange Thickness: 18.4 ± 0.5 (.724)
- Inner Diameter: 13.0 ± 0.5 (.512 $\pm$.020) DIA.
- Bottom Flange Thickness: 14.0 ± 0.5 (.551)
- Overall Height: 50.0 ± 0.5 (1.969)

End View Dimensions:

- Thickness: 0.10 ± 0.004 MAX.
- Embossed Cavity
- Embossed Carrier

Carrier Assembly Dimensions:

- Overall Length: 125.984 ± 0.050 (4.956) (Total length of 3200 components)
- Component Length: 125.984 ± 0.050 (4.956)
- End Flange Thickness: 12 ± 0.050 (.472)
- End Flange Width: 3.4 ± 0.050 (.134)
- Start Flange Thickness: 8 ± 0.050 (.315)
- Start Flange Width: 3.4 ± 0.050 (.134)
- Carrier Assembly Length: 125.984 ± 0.050 (4.956)
- Carrier Assembly Width: 125.984 ± 0.050 (4.956)

Carrier Assembly Details:

- NO COMPONENT: 160 (6.299)
- COMPONENTS: 3200 (125.984)
- NO COMPONENT: 400 (15.748)

USER DIRECTION OF FEED

QTY: 1000 PCS. PER REEL

DIMENSIONS: ———— MM ————
(INCHES)

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.