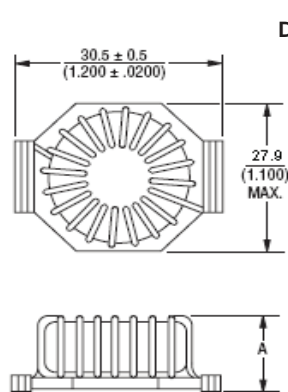


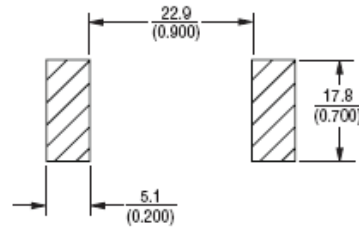
SMTC2110

SURFACE MOUNT HIGH CURRENT TOROID



Dimensions: $\frac{\text{mm}}{\text{(Inches)}}$

Recommended Pad Layout



Features

- High Current up to 22.7A
- Low Magnetic Radiation
- Low Core Loss

Electrical

Inductance range: 1.0uh to 1000uh
(additional values available)

Tolerance: 1.0uh~8.2uh 20%
10uh~1000uh 10%

Test Frequency:

- 1.0uh to 8.2uh @ 7.96MHz
- 10uh to 82uh @ 2.52MHz
- 100uh to 820uh @ .796MHz
- 1000uh @ .252MHz

Operating Temp: -55°C ~ +105°C

Storage Temp: -55°C ~ +105°C

Temp Rise: $\Delta T=30^{\circ}\text{C}$ Typical at rated IDC

Resistance to Solder Heat

Solder Temp: 260°C 10 sec. max

Test Equipment

(L) & (DCR): HP4263

Current Source: Model 1320 & 11021 LCR

Physical

Packaging: Box Trays

Marking: EIA Inductance Code

Allied Part Number	L(uH) ± 20% @ 1KHZ	DCR (Ω) Max	IDC (A)	IDC (A) to decrease L by 30%	Dim A Max mm/(in)
SMTC2110-1R0M-RC	1.0	2	22.7	37.0	14.48/(0.57)
SMTC2110-1R2M-RC	1.2	2	20.3	30.0	14.48/(0.57)
SMTC2110-1R5M-RC	1.5	2	20.3	29.9	14.48/(0.57)
SMTC2110-1R8M-RC	1.8	3	18.5	25.0	14.48/(0.57)
SMTC2110-2R2M-RC	2.2	3	17.2	21.9	14.48/(0.57)
SMTC2110-2R7M-RC	2.7	4	16.0	18.8	14.48/(0.57)
SMTC2110-3R3M-RC	3.3	4	16.0	18.8	14.48/(0.57)
SMTC2110-3R9M-RC	3.9	4	15.1	16.6	14.48/(0.57)
SMTC2110-4R7M-RC	4.7	4	14.4	15.0	14.48/(0.57)
SMTC2110-5R6M-RC	5.6	5	13.7	13.6	14.48/(0.57)
SMTC2110-6R8M-RC	6.8	5	13.1	12.5	14.48/(0.57)
SMTC2110-8R2M-RC	8.2	6	12.6	11.5	14.48/(0.57)
	±10%				
SMTC2110-100K-RC	10	7	11.7	9.95	14.48/(0.57)
SMTC2110-120K-RC	12	7	11.3	9.35	14.48/(0.57)
SMTC2110-150K-RC	15	8	10.7	8.30	14.48/(0.57)
SMTC2110-180K-RC	18	9	10.2	7.50	14.48/(0.57)
SMTC2110-220K-RC	22	10	9.7	6.80	14.48/(0.57)
SMTC2110-270K-RC	27	14	8.2	5.97	13.72/(0.54)
SMTC2110-330K-RC	33	19	7.0	5.35	13.21/(0.52)
SMTC2110-390K-RC	39	20	6.8	5.00	15.75/(0.62)
SMTC2110-470K-RC	47	22	6.5	4.54	15.75/(0.62)
SMTC2110-560K-RC	56	24	6.2	4.15	15.75/(0.62)
SMTC2110-680K-RC	68	27	5.9	3.75	15.75/(0.62)
SMTC2110-820K-RC	82	29	5.6	3.40	15.75/(0.62)
SMTC2110-101K-RC	100	32	5.4	3.11	15.75/(0.62)
SMTC2110-121K-RC	120	35	5.1	2.82	15.75/(0.62)
SMTC2110-151K-RC	150	49	4.3	2.54	14.99/(0.99)
SMTC2110-181K-RC	180	66	3.7	2.30	13.46/(0.53)
SMTC2110-221K-RC	220	74	3.5	2.08	15.24/(0.60)
SMTC2110-271K-RC	270	82	3.4	1.86	15.24/(0.60)
SMTC2110-331K-RC	330	90	3.2	1.70	15.24/(0.60)
SMTC2110-391K-RC	390	98	3.1	1.56	15.24/(0.60)
SMTC2110-471K-RC	470	133	2.6	1.42	14.48/(0.57)
SMTC2110-561K-RC	560	146	2.5	1.30	14.48/(0.57)
SMTC2110-681K-RC	680	202	2.1	1.17	13.72/(0.54)
SMTC2110-821K-RC	820	221	2.0	1.07	15.24/(0.60)
SMTC2110-102K-RC	1000	244	1.9	0.97	15.24/(0.60)

All specifications subject to change without notice.