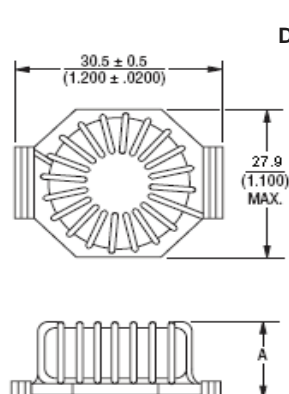
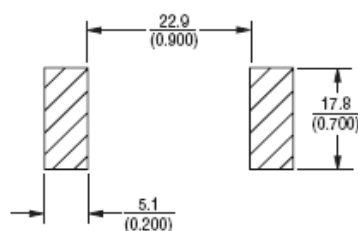


SMTC2120 SMD HIGH CURRENT TOROID



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

Recommended Pad Layout



Features

- High Current Capacity
- SMD
- Low Magnetic Radiation

Electrical

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

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

Test Frequency: 1KHz 0.1v

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: 40 Bags, 400 Carton

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)
SMTC2120-1R0M-RC	1.0	2	25.4	34.4	20.83/(0.82)
SMTC2120-1R2M-RC	1.2	2	25.4	39.2	20.83/(0.82)
SMTC2120-1R5M-RC	1.5	3	22.0	35.6	20.83/(0.82)
SMTC2120-1R8M-RC	1.8	3	22.0	32.9	20.83/(0.82)
SMTC2120-2R2M-RC	2.2	3	19.7	29.5	20.83/(0.82)
SMTC2120-2R7M-RC	2.7	3	19.7	26.3	20.83/(0.82)
SMTC2120-3R3M-RC	3.3	4	18.0	34.0	20.83/(0.82)
SMTC2120-3R9M-RC	3.9	4	18.0	21.8	20.83/(0.82)
SMTC2120-4R7M-RC	4.7	5	16.6	20.0	20.83/(0.82)
SMTC2120-5R6M-RC	5.6	5	15.6	18.2	20.83/(0.82)
SMTC2120-6R8M-RC	6.8	6	14.7	16.7	20.83/(0.82)
SMTC2120-8R2M-RC	8.2	6	14.7	15.1	20.83/(0.82)
	±10%				
SMTC2120-100K-RC	10	7	13.9	13.7	20.83/(0.82)
SMTC2120-120K-RC	12	8	12.7	12.6	20.83/(0.82)
SMTC2120-150K-RC	15	9	12.2	11.0	20.83/(0.82)
SMTC2120-180K-RC	18	9	11.8	10.4	20.83/(0.82)
SMTC2120-220K-RC	22	11	11.0	9.23	20.83/(0.82)
SMTC2120-270K-RC	27	12	10.4	8.33	20.83/(0.82)
SMTC2120-330K-RC	33	13	10.1	7.54	20.83/(0.82)
SMTC2120-390K-RC	39	14	9.6	6.98	20.83/(0.82)
SMTC2120-470K-RC	47	19	8.2	6.30	20.07/(0.79)
SMTC2120-560K-RC	56	21	7.9	5.74	20.07/(0.79)
SMTC2120-680K-RC	68	29	6.7	5.29	19.56/(0.77)
SMTC2120-820K-RC	82	32	6.4	4.84	20.10/(0.87)
SMTC2120-101K-RC	100	35	6.1	4.32	20.10/(0.87)
SMTC2120-121K-RC	120	39	5.8	3.94	20.10/(0.87)
SMTC2120-151K-RC	150	43	5.5	3.56	20.10/(0.87)
SMTC2120-181K-RC	180	47	5.3	3.22	21.08/(0.83)
SMTC2120-221K-RC	220	52	5.0	2.93	21.08/(0.83)
SMTC2120-271K-RC	270	72	4.2	2.66	19.81/(0.78)
SMTC2120-331K-RC	330	100	3.6	2.50	19.81/(0.78)
SMTC2120-391K-RC	390	108	3.5	2.18	21.59/(0.85)
SMTC2120-471K-RC	470	119	3.3	2.00	21.59/(0.85)
SMTC2120-561K-RC	560	130	3.2	1.82	21.59/(0.85)
SMTC2120-681K-RC	680	142	3.0	1.67	21.59/(0.85)
SMTC2120-821K-RC	820	157	2.9	1.51	21.59/(0.85)
SMTC2120-102K-RC	1000	215	2.5	1.37	20.83/(0.82)

All specifications subject to change without notice.