

SUNLEI TECHNOLOGY CORP.

Power chokes- SUI Series

SUI series chokes For High Current Use

SUI series

Features

1. Shielded construction.
2. High current rating up to DC 50Amp
3. High frequency range up to 1.0MHz
4. Ultra low buzz noise, due to composite construction.



SUI-X series

Applications

Excellent for power line DC-DC conversion applications used in power switching, personal computers and other handheld electronic equipment.



Product Identification

SUI1107T-0R3 K

SQS: SERIES NAME

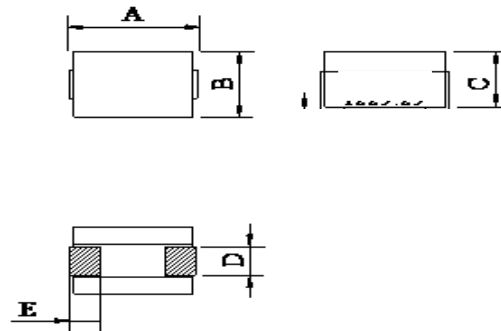
1109: CORE SIZE CODE

T: RI CORE TYPE

0R3: INDUCTANCE CODE.

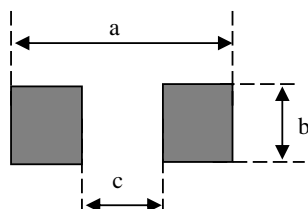
K: TOLERANCE, J=5% K=10% M=20%.

Dimensions (mm)



SERIES	A	B	C	D	E
SUI0906T	10.0max	6.6max	8.0max	2.0ref	2.5ref
SUI1005T	10.5max	7.4max	5.0max	1.8ref	2.5ref
SUI1007T	10.5max	7.4max	7.2max	1.8ref	2.5ref
SUI1107T	11.0max	7.2max	7.8max	2.5ref	2.5ref

Recommended PCB layout (mm)



SERIES	a	b	c
SUI0906T	10.5	3.0	5.5
SUI1005T	11.0	3.0	6.0
SUI1007T	11.0	3.0	6.0
SUI1107T	11.5	3.5	5.5

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Electrical characteristics

Part Number	L0 Inductance uH @0A	DCR (mΩ)	Saturation Current	Heat Rating Current
			Isat (Amp) [Max]	Idc (Amp) [Max]
SUI0906T-R15□	0.15	0.29±8%	65	50
SUI0906T-R18□	0.18	0.29±8%	55	50
SUI0906T-R22□	0.22	0.29±8%	40	50
SUI0906T-R30□	0.30	0.29±8%	30	50
SUI1005T-R12□	0.12	0.39±8%	50	30
SUI1005T-R15□	0.15	0.39±8%	40	30
SUI1005T-R22□	0.22	0.39±8%	35	25
SUI1005T-R30□	0.30	0.39±8%	30	25
SUI1007T-R15□	0.15	0.29±7%	70	55
SUI1007T-R17□	0.17	0.29±7%	66	55
SUI1007T-R22□	0.22	0.29±7%	65	55
SUI1007T-R30□	0.30	0.29±7%	32	50
SUI1107T-R15□	0.15	0.29±10%	70	48
SUI1107T-R22□	0.22	0.29±10%	50	48
SUI1107T-R23□	0.23	0.29±10%	45	48
SUI1107T-R30□	0.30	0.29±10%	30	48
SUI1107T-R40□	0.40	0.29±10%	20	48

□ specify the inductance tolerance, K(±10%), L(±15%), M(±20%)

Test condition @ 100KHz, 1Vrms, 25°C ambient

Idc: DC current(A) that will cause an approximate ΔT of 40°C

Isat: DC current(A) that will cause Lo to drop approximately 20%

Operating Temperature Range: -25°C to +125°C