

SUNLEI TECHNOLOGY CORP.

Power chokes- SQS Series

SQS series chokes For High Current Use

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.

Applications

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

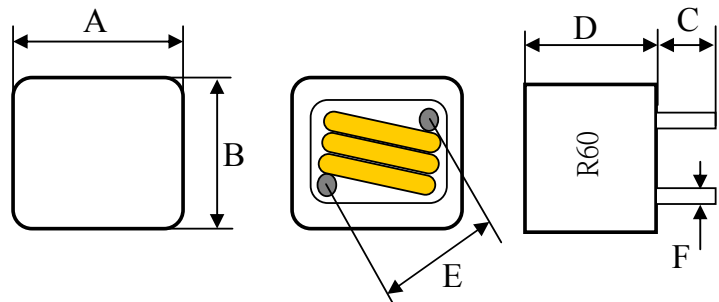


Product Identification

SQS 1109T – 1R2 M

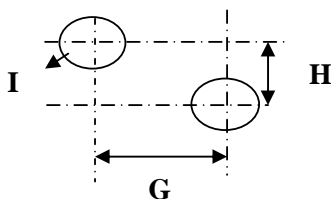
SQS: SERIES NAME
 1109: CORE SIZE CODE
 T: RI CORE TYPE
 1R2: INDUCTANCE CODE.
 M: TOLERANCE, J=5% K=10% M=20%.

Dimensions (mm)



SERIES	A	B	C	D
SQS0806	8.2 max	8.2max	3.3±0.5	7.0 max
SQS1109T	11.7 max	9.7 max	3.3±0.5	10.0 max
SQS1109	11.7 max	11.7 max	3.3±0.5	10.0 max
SQS1310T	13.5 max	12.5max	3.3±0.5	11.0 max

Recommended PCB layout (mm)



Detail Dimensions and Recommended PCB layout
 Per customer specifications

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Electrical characteristics

Part Number	L0 Inductance $\mu\text{H} \pm 20\%$ @0A	DCR (m Ω)		Heat Rating Current	Saturation Current
		[Typical]	[Max]	Idc (Amp) [Max]	Isat (Amp) [Max]
SQS0806-0R3M	0.3	1.20	1.56	20	21
SQS0806-0R47M	0.47	1.50	2.00	18	21
SQS0806-0R56M	0.56	1.90	2.05	18	21
SQS0806-0R82M	0.82	2.90	3.13	18	21
SQS0806-1R0M	1.0	2.90	3.13	17	21
SQS0806-1R2M	1.2	4.30	4.64	17	21
SQS0806-1R5M	1.5	6.30	6.80	13	15
SQS0806-1R8M	1.8	9.50	11.00	12	15
SQS0806-2R2M	2.2	10.20	12.00	10	15
SQS1109-0R25M	0.25	0.80	0.86	38	50
SQS1109-0R30M	0.3	0.80	0.86	38	50
SQS1109-0R47M	0.47	0.80	0.86	35	45
SQS1109-0R60M	0.6	0.80	0.86	26	39
SQS1109-0R68M	0.68	0.80	0.86	35	50
SQS1109-0R80M	0.8	0.70	0.86	33	45
SQS1109-1R0M	1.0	1.10	1.50	32	35
SQS1109-1R5M	1.5	2.40	2.60	27	30
SQS1109-1R8M	1.8	3.00	3.30	22	25
SQS1109-2R2M	2.2	3.30	3.60	20	30
SQS1109-3R3M	3.3	6.30	6.80	14	25
SQS1109T-0R25M	0.25	0.65	0.70	43	50
SQS1109T-0R30M	0.30	0.65	0.70	43	45
SQS1109T-0R56M	0.56	1.00	1.10	37	50
SQS1109T-1R0M	1.00	2.00	2.16	28	50
SQS1310T-0R47M	0.47	0.75	0.81	40	50
SQS1310T-0R60M	0.60	0.75	0.81	40	50
SQS1310T-0R80M	0.80	0.75	0.81	39	50
SQS1310T-1R0M	1.00	1.15	1.24	32	42
SQS1310T-1R5M	1.50	1.85	2.00	26	42
SQS1310T-2R0M	2.00	3.00	3.24	20	35
SQS1310T-3R3M	3.30	4.30	4.64	17	22

Test condition @ 100KHz, 0.1Vrms, 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