

**VERY HIGH CURRENT SQUARE COIL
SERIES SQS**

FEATURES

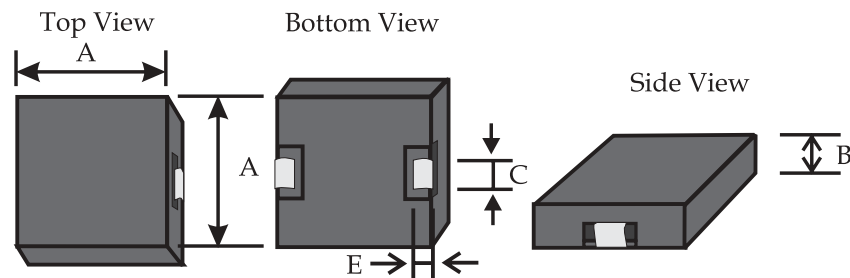
Flat wire technology
 Very high current handling capacity
 Low profile and shielded
 Many sizes to choose from
 Excellent for wave or reflow soldering
 Low price

ELECTRICAL CHARACTERISTICS

Inductance range	Series SQS27 from 0.15uH to 3.00 uH Series SQS37 from 0.25uH to 2.00 uH Series SQS41 from 0.25uH to 5.50 uH Series SQS50 from 0.57uH to 5.00 uH
Tolerance	± 20%
Test equipment	Quadtech Digibridge 1750 LCR Meter @ 100KHz
Saturation current	Obtained when Lo drops 30% typical
Rated current	Obtained when temperature rises up to 30°C

PHYSICAL CHARACTERISTICS

Operating temperature	- 25° C to +125° C
Soldering heat resistance	235° C for 5 seconds
Construction	Surface mount with ferrite core and epoxy coating
Terminal	Tinned copper wire
Tape & reel specifications	24 mm or 32 mm depending on size
Quantity per reel	SQS27 & SQS37 sizes 900 pieces per reel SQS41 & SQS50 sizes 350 pieces per reel

DIMENSIONS IN MILLIMETERS

SIZE	Side A maximum	Height B maximum	Terminal width C nominal	REMARKS
SQS27	13.50	3.00	2.60	
SQS37	13.50	3.80	2.60	
SQS41	13.50	5.12	2.80	
SQS50	13.50	5.50	2.80	

SQS27 SERIES

Part Number	L (uH)	Tol % ±	DCR max (Ω)	Rated Current (A)	Saturation Current (A)
SQS27-R15M	0.15	20	0.0045	9.0	14
SQS27-R30M	0.30		0.0055	8.0	13
SQS27-R54M	0.54		0.0065	7.2	11
SQS27-R85M	0.85		0.0120	6.6	9.5
SQS27-1R2M	1.20		0.0130	6.0	9.0
SQS27-1R6M	1.60		0.0190	5.5	8.5
SQS27-2R2M	2.20		0.0210	5.0	7.3
SQS27-3R0M	3.00		0.0230	4.0	6.5

SQS37 SERIES

Part Number	L (uH)	Tol % ±	DCR max (Ω)	Rated Current (A)	Saturation Current (A)
SQS37-R25M	0.25	20	0.0015	15	25
SQS37-R60M	0.60		0.0020	13	20
SQS37-1R0M	1.00		0.0030	10	15
SQS37-1R8M	1.80		0.0040	10	15
SQS37-2R0M	2.00		0.0050	10	15

SQS41 SERIES

Part Number	L (uH)	Tol % ±	DCR max (Ω)	Rated Current (A)	Saturation Current (A)
SQS41-R25M	0.25	20	0.001	17	30
SQS41-R50M	0.50		0.002	15	25
SQS41-1R0M	1.00		0.003	15	25
SQS41-1R5M	1.50		0.004	13	20
SQS41-2R2M	2.20		0.005	13	20
SQS41-3R3M	3.30		0.006	10	15
SQS41-4R2M	4.20		0.007	10	15
SQS41-5R3M	5.30		0.008	10	15
SQS41-5R5M	5.50		0.009	10	15

SQS50 SERIES

Part Number	L (uH)	Tol % ±	DCR max (Ω)	Rated Current (A)	Saturation Current (A)
SQS50-R57M	0.57	20	0.001	25	40
SQS50-1R0M	1.00		0.002	18	32
SQS50-1R5M	1.50		0.004	15	27
SQS50-2R2M	2.20		0.005	15	25
SQS50-3R3M	3.30		0.007	15	24
SQS50-3R5M	3.50		0.007	15	23
SQS50-4R5M	4.50		0.008	13	20
SQS50-4R7M	4.70		0.010	13	20
SQS50-5R0M	5.00		0.011	13	20

LAND PATTERN

- A = 2.80 mm
- B = 3.50 mm
- C = 6.60 mm

