



SQH6045CS SERIES ~ Low Profile SMD Power Inductors

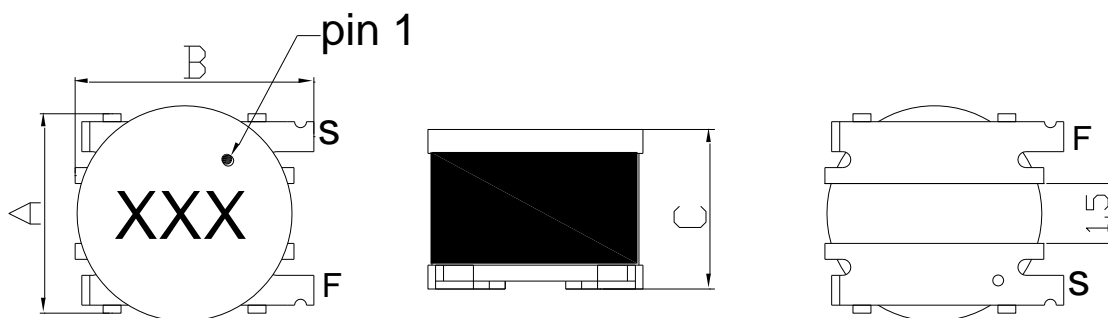


PART NUMBERING SYSTEM

SQH	6045CS	—	680M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

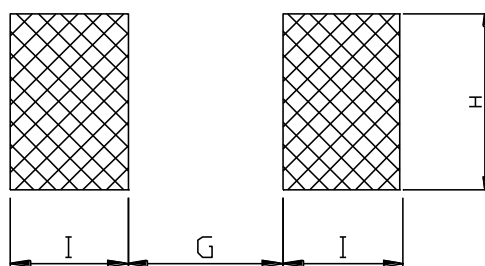
UNIT : mm



A=6.4 Max. B=6.2 Max. C=4.5 Ref. E=1.35±0.2

RECOMMENDED PATTERNS

UNIT : mm



G= 1.40 H= 6.00 I = 2.40

FEATURES

- * Low profile and small inductors (6.4mm Max. square and 4.5mm Max. height)
- * Magnetically shielded construction and high current
- * Ideal for DC-DC converter choke coil for portable equipments (DVDs , DSC , Cellular , PDAs)
- * RoHS compliant option with lead free

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (Max.)	DCR (m Ω) (Typ.)	Isat (A) (Max.)	Irms (mA) (Max.)
SQH6045CS-1R5N-LF	1.5 \pm 30%	15.0	11.0	5.70	5.10
SQH6045CS-2R2N-LF	2.2 \pm 30%	17.0	13.0	5.00	4.80
SQH6045CS-3R3N-LF	3.3 \pm 30%	20.0	17.0	4.70	4.20
SQH6045CS-4R7M-LF	4.7 \pm 20%	27.0	23.0	3.80	3.80
SQH6045CS-6R8M-LF	6.8 \pm 20%	41.0	35.0	3.00	2.90
SQH6045CS-100M-LF	10 \pm 20%	58.0	46.0	2.50	2.50
SQH6045CS-150M-LF	15 \pm 20%	91.0	76.0	2.10	2.10
SQH6045CS-220M-LF	22 \pm 20%	130	100	1.70	1.70
SQH6045CS-330M-LF	33 \pm 20%	180	150	1.40	1.40
SQH6045CS-470M-LF	47 \pm 20%	260	220	1.20	1.10
SQH6045CS-680M-LF	68 \pm 20%	410	340	0.90	1.00
SQH6045CS-101M-LF	100 \pm 20%	590	490	0.80	0.70
SQH6045CS-151M-LF	150 \pm 20%	750	630	0.60	0.60
SQH6045CS-331M-LF	330 \pm 20%	1651	1400	0.54	0.56

- Test Frequency @ 100KHz / 1V
- Isat : DC current at which the inductance drops 30%(typ) from its value without current.
- Irms : The temperature rise current value is the DC current value having temperature increase up 40°C temperature rise from 25°C ambient.
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C .