



# SQH31 SERIES ~ SMD Power Inductors



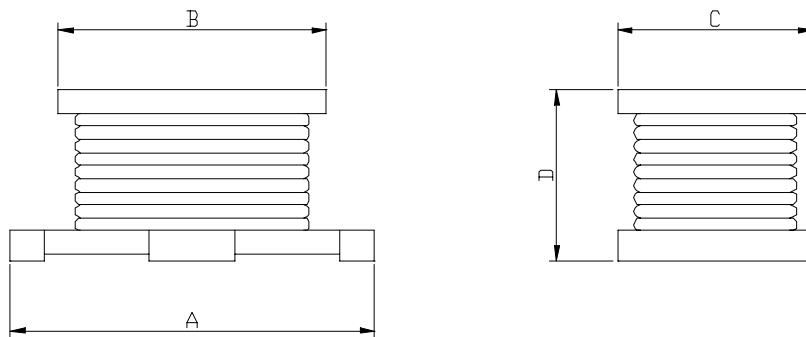
RoHS Compliant

## PART NUMBERING SYSTEM

<b>SQH</b>	<b>3 1</b>	—	<b>680K</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

## SHAPES AND DIMENSIONS

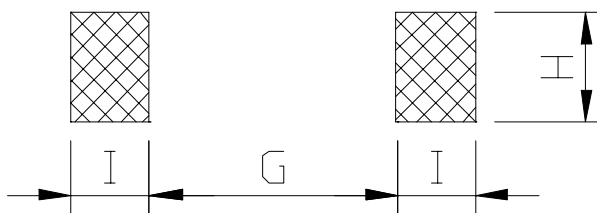
UNIT : mm



**A=3.5 Max. B=2.5 Max. C=1.8 Max D=2.0 Max**

## RECOMMENDED PATTERNS

UNIT : mm



**G=0.7 Min. H=1.6 Ref. I=0.7 Min**



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) (Max.)	Isat (mA) (Max.)	SRF typ. ( HZ )	Test Freq. ( Hz )
SQH31-R15M-LF	0.15 $\pm$ 20%	0.546	250	250	1MHz
SQH31-R22M-LF	0.22 $\pm$ 20%	0.602	240	250	1MHz
SQH31-R33M-LF	0.33 $\pm$ 20%	0.630	230	250	1MHz
SQH31-R47M-LF	0.47 $\pm$ 20%	1.162	215	200	1MHz
SQH31-R56M-LF	0.56 $\pm$ 20%	0.854	200	180	1MHz
SQH31-R68M-LF	0.68 $\pm$ 20%	0.938	190	160	1MHz
SQH31-R82M-LF	0.82 $\pm$ 20%	1.022	185	120	1MHz
SQH31-1R0M-LF	1.0 $\pm$ 20%	0.637	175	100	1MHz
SQH31-1R5M-LF	1.5 $\pm$ 20%	1.30	155	75	1MHz
SQH31-2R2M-LF	2.2 $\pm$ 20%	0.91	140	50	1MHz
SQH31-3R3M-LF	3.3 $\pm$ 20%	1.82	130	38	1MHz
SQH31-4R7K-LF	4.7 $\pm$ 20%	2.21	120	31	1MHz
SQH31-6R8K-LF	6.8 $\pm$ 20%	2.60	110	25	1MHz
SQH31-100K-LF	10 $\pm$ 10%	3.25	100	20	1MHz
SQH31-150K-LF	15 $\pm$ 10%	3.90	90	16	1MHz
SQH31-220K-LF	22 $\pm$ 10%	4.03	85	14	1MHz
SQH31-330K-LF	33 $\pm$ 10%	4.94	80	12	1MHz
SQH31-470K-LF	47 $\pm$ 10%	10.4	55	10	1MHz
SQH31-680K-LF	68 $\pm$ 10%	12.87	50	8.5	1MHz
SQH31-101K-LF	100 $\pm$ 10%	15.60	45	7.0	1MHz

- Inductance using an Agilent/HP 4263B LCR meter or equivalent.
- Isat: For inductance values  $\geq 10 \mu$ H, DC current at which the inductance drops 10% (max) from its value without current. For inductance values  $< 10 \mu$ H, DC current at which the inductance drops 20% (max) from its value without current.
- Irms: Current that causes specified temperature rise from 25°C ambient.
- Operating temperature range -40°C to +85°C ,
- Electrical specifications at 20°C .