



# SQH54 SERIES ~ SMD Power Inductors



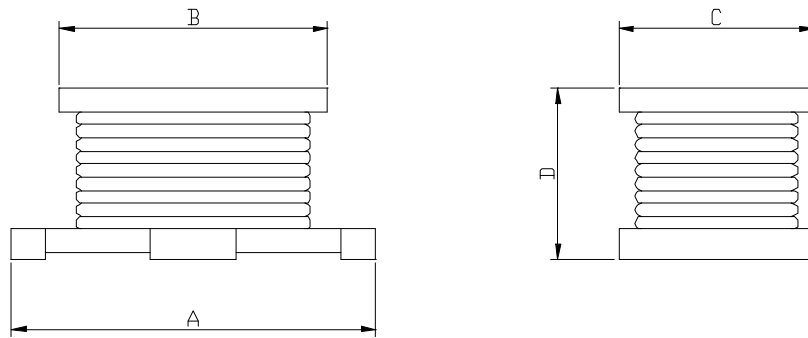
RoHS Compliant

## PART NUMBERING SYSTEM

<u>SQH</u>	<u>5 4</u>	—	<u>680K</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

## SHAPES AND DIMENSIONS

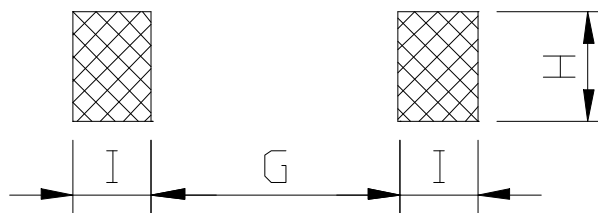
UNIT : mm



A=6.0 Max. B=5.3 Max. D=5.3 Max D=5.2 Max

## RECOMMENDED PATTERNS

UNIT : mm



G=1.7 Min. H=5.0 Ref. I=1.3 Min



**Coilmaster Electronics Co., Ltd.**

9F-3 No.398, Huan Bei Rd. Chung Li City, Taoyuan 320, Taiwan  
Tel : +886-3-422-8279 Fax : +886-3-422-8734

E-mail : [info@coilmaster.com.tw](mailto:info@coilmaster.com.tw)

Web Site : [www.coilmaster.com.tw](http://www.coilmaster.com.tw)

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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) (Max.)	Isat (A) (Max.)	SRF typ. (HZ)	Test Freq. (Hz)
SQH54-R12M-LF	0.12 $\pm$ 20%	0.010	6.0	450	1MHz
SQH54-R27M-LF	0.27 $\pm$ 20%	0.014	5.3	300	1MHz
SQH54-R47M-LF	0.47 $\pm$ 20%	0.018	4.8	200	1MHz
SQH54-1R0M-LF	1.0 $\pm$ 20%	0.027	4.0	150	1MHz
SQH54-1R5M-LF	1.5 $\pm$ 20%	0.031	3.7	110	1MHz
SQH54-2R2M-LF	2.2 $\pm$ 20%	0.041	3.2	80	1MHz
SQH54-3R3M-LF	3.3 $\pm$ 20%	0.050	2.9	40	1MHz
SQH54-4R7M-LF	4.7 $\pm$ 20%	0.057	2.7	30	1MHz
SQH54-6R8M-LF	6.8 $\pm$ 20%	0.10	2.0	25	1MHz
SQH54-100K-LF	10 $\pm$ 10%	0.13	1.7	20	1MHz
SQH54-150K-LF	15 $\pm$ 10%	0.21	1.4	17	1MHz
SQH54-220K-LF	22 $\pm$ 10%	0.27	1.2	15	1MHz
SQH54-330K-LF	33 $\pm$ 10%	0.45	0.9	12	1MHz
SQH54-470K-LF	47 $\pm$ 10%	0.56	0.8	10	1MHz
SQH54-680K-LF	68 $\pm$ 10%	0.94	0.64	7.6	1MHz
SQH54-101K-LF	100 $\pm$ 10%	1.20	0.56	6.5	100KHz
SQH54-151K-LF	150 $\pm$ 10%	2.66	0.42	5.0	100KHz
SQH54-221K-LF	220 $\pm$ 10%	3.36	0.32	4.0	100KHz
SQH54-331K-LF	330 $\pm$ 10%	6.16	0.27	3.1	100KHz
SQH54-471K-LF	470 $\pm$ 10%	7.56	0.24	2.4	100KHz
SQH54-681K-LF	680 $\pm$ 10%	11.3	0.19	1.9	100KHz
SQH54-102K-LF	1000 $\pm$ 10%	14.4	0.15	1.7	100KHz
SQH54-152K-LF	1500 $\pm$ 10%	30.1	0.10	1.2	100KHz
SQH54-222K-LF	2200 $\pm$ 10%	45.0	0.09	1.1	100KHz
SQH54-332K-LF	3200 $\pm$ 10%	50.0	0.08	1.0	100KHz
SQH54-472K-LF	4700 $\pm$ 10%	61.0	0.07	0.8	100KHz
SQH54-682K-LF	6800 $\pm$ 10%	100	0.06	0.7	100KHz
SQH54-822K-LF	8200 $\pm$ 10%	125	0.05	0.6	100KHz
SQH54-103K-LF	10000 $\pm$ 10%	140	0.05	0.5	100KHz

- 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 .