

## SQH2515S SERIES ~ Low Profile SMD Power Inductors

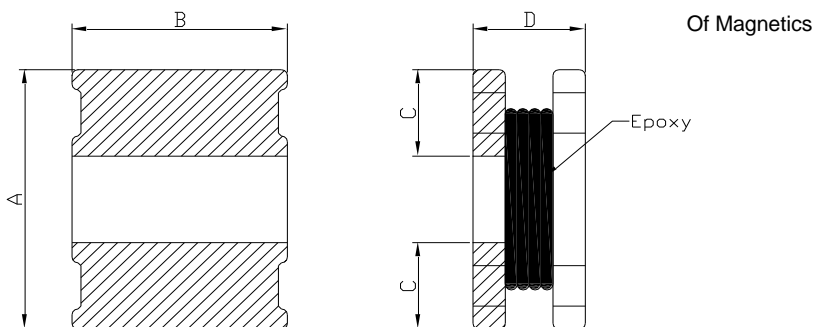


### PART NUMBERING SYSTEM

<b>SQH</b>	<b>2515S</b>	—	<b>1R0N</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

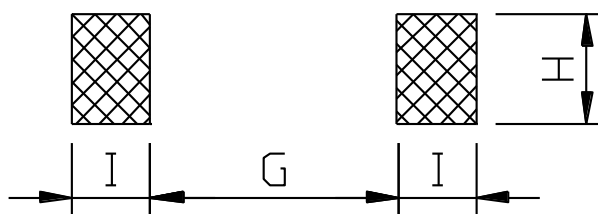
UNIT : mm



A=2.7 Max. B=2.3 Max. D=1.5 Max

### RECOMMENDED PATTERNS

UNIT : mm



G=0.9 Ref. H=2.0 Ref. I=0.8 Ref.

### FEATURES

1. Very small power inductor - only 1.5 mm high, 2.5 mm square.
2. Handles current up to 1.95 Asat, 1.75 Arms
3. Inductance range from 1.0uH to 10uH
4. RoHS-compliant – 260°C compatible



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR (m $\Omega$ ) (Max.)	DCR (m $\Omega$ ) (Max.)	Isat (mA)	Irms (mA)	Test Freq.
SQH2515S-1R0N-LF	1.0 $\pm$ 30%	82	68	1.95	1.75	100KHz/1V
SQH2515S-1R5N-LF	1.5 $\pm$ 30%	120	100	1.75	1.45	100KHz/1V
SQH2515S-2R2M-LF	2.2 $\pm$ 20%	160	133	1.50	1.25	100KHz/1V
SQH2515S-3R3M-LF	3.3 $\pm$ 20%	219	182	1.20	1.05	100KHz/1V
SQH2515S-4R7M-LF	4.7 $\pm$ 20%	318	265	1.00	0.89	100KHz/1V
SQH2515S-6R8M-LF	6.8 $\pm$ 20%	480	400	0.85	0.73	100KHz/1V
SQH2515S-100M-LF	10 $\pm$ 20%	588	490	0.72	0.66	100KHz/1V

- Inductance is measured in HP-4285A Precision LCR Meter.
- Isat: DC current at which the inductance drops 30% (typ) from its value without current.
- Irms: Based on temperature rise ( $\Delta$ T : 40 $^{\circ}$ C TYP.)
- Operating temperature range -40 $^{\circ}$ C to +105 $^{\circ}$ C
- Electrical specifications at 25 $^{\circ}$ C.