



**Coilmaster Electronics Co., Ltd.**

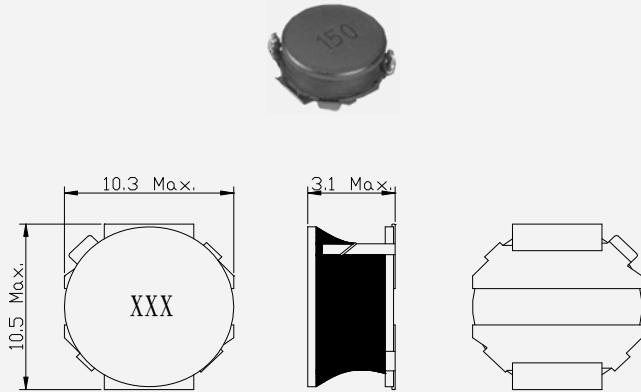
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## SMT Power Inductors

### SQH103CS



- Size : 10.5x10.3x3.1 (mm)
- Core material : Ferrite + Magnetics Epoxy
- Magnetically shielded
- RoHS-compatible

Terminals : Lead-free tinned  
 Solderability : Reflow soldering  
 Marking : L value ( $\mu\text{H}$ , coded)  
 Delivery mode : Tape & reel packing  
 Packing unit : 1000 pcs/reel

INDUCTANCE ( $\mu\text{H}$ )	Tolerance	$f_L$ MHz	Isat (A) (Max.)	Irms (A) (Max.)	DCR (m $\Omega$ ) (Max.)	Ordering code
0.8	$\pm 30\% = N$	0.1	11.2	8.30	5.7	SQH103CS-0R8N-LF
1.5		0.1	8.0	5.80	11.0	SQH103CS-1R5N-LF
2.2		0.1	6.7	5.10	16.9	SQH103CS-2R2N-LF
3.3		0.1	5.56	4.70	21.0	SQH103CS-3R3N-LF
4.7		0.1	4.65	4.00	30.0	SQH103CS-4R7N-LF
6.8		0.1	3.84	3.60	35.0	SQH103CS-6R8N-LF
8.2		0.1	3.54	3.00	50.0	SQH103CS-8R2N-LF
10		0.1	3.18	2.80	59.0	SQH103CS-100N-LF
15		0.1	2.60	2.05	91.0	SQH103CS-150N-LF
22		0.1	2.16	1.60	143	SQH103CS-220N-LF
33		0.1	1.74	1.35	202	SQH103CS-330N-LF
47		0.1	1.43	1.20	299	SQH103CS-470N-LF
56		0.1	1.36	1.15	325	SQH103CS-560N-LF
68		0.1	1.22	0.95	429	SQH103CS-680N-LF
82		0.1	1.14	0.80	494	SQH103CS-820N-LF
100		0.1	1.02	0.70	683	SQH103CS-101N-LF
120		0.1	0.89	0.65	754	SQH103CS-121N-LF
150		0.1	0.84	0.51	871	SQH103CS-151N-LF

- Isat : DC current at which the inductance drops 35% (typ) from its value without current.
- Irms: The actual current when temperature of coil becomes  $\Delta 40^\circ\text{C}$  . (  $T_a = +25^\circ\text{C}$  )
- Operating temperature range  $-40^\circ\text{C}$  to  $+125^\circ\text{C}$ , Electrical specifications at  $25^\circ\text{C}$ .