



Coilmaster Electronics Co., Ltd.

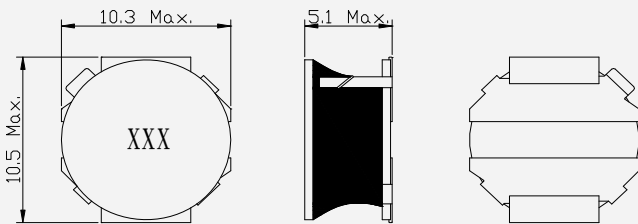
9F-3 No.398, Huan Bei Rd. Chung Li City, Taoyuan 320, Taiwan
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E-mail : info@coilmaster.com.tw

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SMT Power Inductors

SQH105CS



- Size : 10.5x10.3x5.1 (mm)
- Core material : Ferrite + Magnetics Epoxy
- Magnetically shielded
- RoHS-compatible

Terminals : Lead-free tinned
Solderability : Reflow soldering
Marking : L value (μH , coded)
Delivery mode : Tape & reel packing
Packing unit : 800 pcs/reel

| INDUCTANCE (μH) | Tolerance | f _L MHz | Isat (A) (Max.) | I _{rms} (A) (Max.) | DCR (m Ω) (Max.) | Ordering code |
|------------------------------|-----------|--------------------|-----------------|-----------------------------|--------------------------|------------------|
| 0.8 | ±30%=N | 0.1 | 13.5 | 9.50 | 4.3 | SQH105CS-0R8N-LF |
| 1.5 | | 0.1 | 10.5 | 8.30 | 5.8 | SQH105CS-1R5N-LF |
| 2.2 | | 0.1 | 9.25 | 7.50 | 7.2 | SQH105CS-2R2N-LF |
| 3.3 | | 0.1 | 7.80 | 6.50 | 10.4 | SQH105CS-3R3N-LF |
| 4.7 | | 0.1 | 6.40 | 6.10 | 12.3 | SQH105CS-4R7N-LF |
| 6.8 | | 0.1 | 5.40 | 5.40 | 18 | SQH105CS-6R8N-LF |
| 8.2 | | 0.1 | 4.85 | 5.00 | 20 | SQH105CS-8R2N-LF |
| 10 | | 0.1 | 4.45 | 4.50 | 26 | SQH105CS-100N-LF |
| 12 | | 0.1 | 4.00 | 3.80 | 33 | SQH105CS-120N-LF |
| 15 | | 0.1 | 3.60 | 3.40 | 41 | SQH105CS-150N-LF |
| 18 | | 0.1 | 3.20 | 3.10 | 46 | SQH105CS-180N-LF |
| 22 | | 0.1 | 2.95 | 2.90 | 61 | SQH105CS-220N-LF |
| 27 | | 0.1 | 2.70 | 2.60 | 69 | SQH105CS-270N-LF |
| 33 | | 0.1 | 2.40 | 2.50 | 84 | SQH105CS-330N-LF |
| 39 | | 0.1 | 2.30 | 2.25 | 106 | SQH105CS-390N-LF |
| 47 | | 0.1 | 2.00 | 2.00 | 130 | SQH105CS-470N-LF |
| 56 | | 0.1 | 1.90 | 1.90 | 149 | SQH105CS-560N-LF |
| 68 | | 0.1 | 1.65 | 1.60 | 201 | SQH105CS-680N-LF |
| 82 | 0.1 | 1.50 | 1.45 | 227 | SQH105CS-820N-LF | |
| 100 | 0.1 | 1.35 | 1.35 | 253 | SQH105CS-101N-LF | |
| 120 | 0.1 | 1.28 | 1.18 | 303 | SQH105CS-121N-LF | |
| 150 | 0.1 | 1.12 | 1.10 | 370 | SQH105CS-151N-LF | |
| 180 | 0.1 | 1.04 | 1.00 | 419 | SQH105CS-181N-LF | |

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



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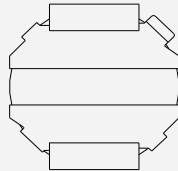
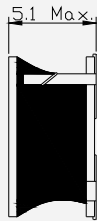
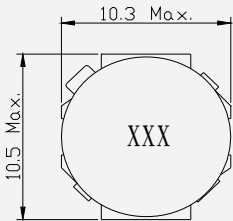
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| INDUCTANCE (μH) | Tolerance | f_L MHz | Isat (A) (Max.) | Irms (A) (Max.) | DCR (m Ω) (Max.) | Ordering code |
|------------------------------|----------------|-----------|-----------------|-----------------|--------------------------|------------------|
| 220 | $\pm 30\% = N$ | 0.1 | 0.94 | 0.94 | 500 | SQH105CS-221N-LF |
| 270 | | 0.1 | 0.84 | 0.80 | 672 | SQH105CS-271N-LF |
| 330 | | 0.1 | 0.75 | 0.73 | 812 | SQH105CS-331N-LF |
| 390 | | 0.1 | 0.70 | 0.70 | 953 | SQH105CS-391N-LF |
| 470 | | 0.1 | 0.60 | 0.54 | 1289 | SQH105CS-471N-LF |
| 560 | | 0.1 | 0.54 | 0.52 | 1430 | SQH105CS-561N-LF |
| 680 | | 0.1 | 0.52 | 0.51 | 1599 | SQH105CS-681N-LF |
| 820 | | 0.1 | 0.50 | 0.48 | 1768 | SQH105CS-821N-LF |
| 1000 | | 0.1 | 0.48 | 0.42 | 1989 | SQH105CS-102N-LF |

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- Iirms: The actual current when temperature of coil becomes $\Delta 40^\circ\text{C}$. ($T_a = +25^\circ\text{C}$)
- Operating temperature range -40°C to $+125^\circ\text{C}$, Electrical specifications at 25°C .