

SURFACE MOUNT UNSHIELDED POWER INDUCTORS



AISC - 1210H

FEATURES:

- Construction: Ceramic or Ferrite
- Excellent SRF
- High Frequency Design
- Excellent Q values

OPTIONS:

- Tape & Reel is standard
- Add L for no Cap, F for Ferrite Base
- Add G for Gold Plated Terminal
- Add S for Solder Plated Terminal

APPLICATIONS:

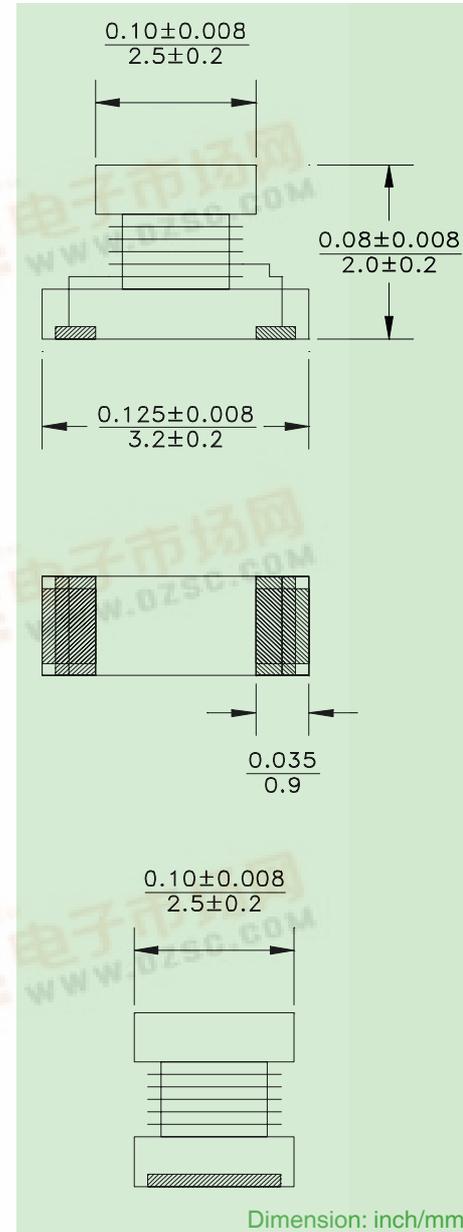
- Wireless Communications Equipment
- Networking System
- Computer Products and Peripherals

ELECTRICAL SPECIFICATIONS:

| Part Number | L (µH) | L Test Freq (MHz) | Q Min | Q Test Freq (MHz) | SRF Min (MHz) | R _{DC} Max (Ω) | I _{DC} Max (mA) |
|---------------------|--------|-------------------|-------|-------------------|---------------|-------------------------|--------------------------|
| 1210H Series | | | | | | | |
| AISC-1210H-R10M | 0.10 | 1 | 20 | 25.2 | 198 | 0.25 | 720 |
| AISC-1210H-R18M | 0.18 | 1 | 20 | 25.2 | 198 | 0.25 | 660 |
| AISC-1210H-R27M | 0.24 | 1 | 25 | 25.2 | 198 | 0.25 | 620 |
| AISC-1210H-R39M | 0.39 | 1 | 25 | 25.2 | 198 | 0.25 | 550 |
| AISC-1210H-R56M | 0.56 | 1 | 30 | 25.2 | 160 | 0.25 | 550 |
| AISC-1210H-R68M | 0.68 | 1 | 30 | 25.2 | 160 | 0.25 | 480 |
| AISC-1210H-R82M | 0.82 | 1 | 30 | 25.2 | 120 | 0.25 | 460 |
| AISC-1210H-1R0M | 1.0 | 1 | 20 | 1 | 100 | 0.40 | 450 |
| AISC-1210H-1R2M | 1.2 | 1 | 20 | 1 | 100 | 0.50 | 130 |
| AISC-1210H-1R5K | 1.5 | 1 | 20 | 1 | 75 | 0.60 | 400 |
| AISC-1210H-1R8K | 1.8 | 1 | 20 | 1 | 60 | 0.70 | 390 |
| AISC-1210H-2R2K | 2.2 | 1 | 20 | 1 | 50 | 0.80 | 370 |
| AISC-1210H-2R7K | 2.7 | 1 | 20 | 1 | 44 | 0.90 | 330 |
| AISC-1210H-3R3K | 3.3 | 1 | 20 | 1 | 40 | 1.0 | 300 |
| AISC-1210H-3R9K | 3.9 | 1 | 20 | 1 | 35 | 1.1 | 290 |
| AISC-1210H-4R7K | 4.7 | 1 | 20 | 1 | 32 | 1.2 | 270 |
| AISC-1210H-5R6K | 5.6 | 1 | 20 | 1 | 28 | 1.3 | 250 |
| AISC-1210H-6R8K | 6.8 | 1 | 20 | 1 | 25 | 1.5 | 240 |
| AISC-1210H-8R2K | 8.2 | 1 | 20 | 1 | 23 | 1.6 | 225 |
| AISC-1210H-100K | 10 | 1 | 35 | 1 | 20 | 1.8 | 190 |
| AISC-1210H-120K | 12 | 1 | 35 | 1 | 18 | 2.0 | 180 |
| AISC-1210H-150K | 15 | 1 | 35 | 1 | 16 | 2.2 | 170 |
| AISC-1210H-180K | 18 | 1 | 35 | 1 | 15 | 2.5 | 165 |
| AISC-1210H-220K | 22 | 1 | 35 | 1 | 14 | 2.8 | 150 |
| AISC-1210H-270K | 27 | 1 | 35 | 1 | 13 | 3.1 | 125 |
| AISC-1210H-330K | 33 | 1 | 35 | 1 | 12 | 3.5 | 115 |
| AISC-1210H-390K | 39 | 1 | 40 | 1 | 11 | 3.9 | 110 |
| AISC-1210H-470K | 47 | 1 | 40 | 1 | 11 | 4.3 | 100 |
| AISC-1210H-560K | 56 | 1 | 40 | 1 | 10 | 4.9 | 90 |
| AISC-1210H-680K | 68 | 1 | 40 | 1 | 9 | 5.5 | 85 |
| AISC-1210H-820K | 82 | 1 | 40 | 1 | 9 | 6.2 | 80 |
| AISC-1210H-101K | 100 | 1 | 40 | 0.796 | 8 | 6.8 | 78 |
| AISC-1210H-121K | 120 | 1 | 40 | 0.796 | 8 | 7.8 | 72 |
| AISC-1210H-151K | 150 | 1 | 40 | 0.796 | 7 | 9.2 | 70 |
| AISC-1210H-181K | 180 | 1 | 40 | 0.796 | 7 | 10 | 70 |
| AISC-1210H-221K | 220 | 1 | 40 | 0.796 | 6 | 12 | 65 |
| AISC-1210H-271K | 270 | 1 | 40 | 0.796 | 6 | 13 | 65 |
| AISC-1210H-331K | 330 | 1 | 40 | 0.796 | 5 | 13 | 65 |
| AISC-1210H-391K | 390 | 1 | 50 | 0.796 | 5 | 22 | 50 |
| AISC-1210H-471K | 470 | 0.1 | 50 | 0.796 | 5 | 25 | 45 |
| AISC-1210H-561K | 560 | 0.1 | 50 | 0.796 | 5 | 28 | 40 |

Note: 1. J=±5%, K=±10%, M=±20%

OUTLINE DRAWING:



TECHNICAL INFORMATION:

- AISC-1210H-XXXX Typical Values Only (-XXX equal inductance value)
- Add -T for tape and reel
- Operating Temperature: **-40°C to +125°C**
- Inductance drop 10% typical at I_{DC}

TOLERANCES:

UNLESS OTHERWISE SPECIFIED:
 inch: .XX: ± 0.015 .XXX: ± 0.010
 mm: X,X: ±0,38 X,XX: ± 0.25

Dimension: inch/mm

