# SURFACE MOUNT UNSHIELDED POWER INDUCTORS

## AISC - 1812H

### 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 AISC-1812H- | L (µH) | L Test Freq (MHz) | Q (Min) | Q Test (Freq) (MHz) | SRF (Min) (MHz) | $R_{DC}$ (Max) (Ω) | $I_{DC}$ (Max) (mA) |
|---|---|---|---|---|---|---|---|
| 1R0M | 1.0 | 1 | 20 | 1 | 120 | 0.20 | 550 |
| 1R2M | 1.2 | 1 | 20 | 1 | 100 | 0.25 | 530 |
| 1R5M | 1.5 | 1 | 20 | 1 | 85 | 0.28 | 500 |
| 1R8M | 1.8 | 1 | 20 | 1 | 75 | 0.30 | 500 |
| 2R2M | 2.2 | 1 | 20 | 1 | 62 | 0.30 | 500 |
| 2R7M | 2.7 | 1 | 20 | 1 | 53 | 0.32 | 500 |
| 3R3M | 3.3 | 1 | 20 | 1 | 47 | 0.35 | 500 |
| 3R9M | 3.9 | 1 | 20 | 1 | 42 | 0.38 | 500 |
| 4R7K | 4.7 | 1 | 30 | 1 | 38 | 0.40 | 500 |
| 5R6K | 5.6 | 1 | 30 | 1 | 35 | 0.47 | 500 |
| 6R8K | 6.8 | 1 | 30 | 1 | 32 | 0.50 | 500 |
| 8R2K | 8.2 | 1 | 30 | 1 | 28 | 0.56 | 500 |
| 100K | 10 | 1 | 35 | 1 | 24 | 0.56 | 450 |
| 120K | 12 | 1 | 35 | 1 | 22 | 0.62 | 450 |
| 150K | 15 | 1 | 35 | 1 | 19 | 0.73 | 390 |
| 180K | 18 | 1 | 35 | 1 | 17 | 0.82 | 370 |
| 220K | 22 | 1 | 35 | 1 | 15 | 0.94 | 350 |
| 270K | 27 | 1 | 35 | 1 | 14 | 1.1 | 330 |
| 330K | 33 | 1 | 35 | 1 | 12 | 1.2 | 310 |
| 390K | 39 | 1 | 35 | 1 | 11 | 1.4 | 280 |
| 470K | 47 | 1 | 35 | 1 | 10 | 1.5 | 250 |
| 560K | 56 | 1 | 35 | 1 | 9.5 | 1.7 | 225 |
| 680K | 68 | 1 | 35 | 1 | 8.5 | 1.9 | 200 |
| 820K | 82 | 1 | 35 | 1 | 7.5 | 2.2 | 185 |

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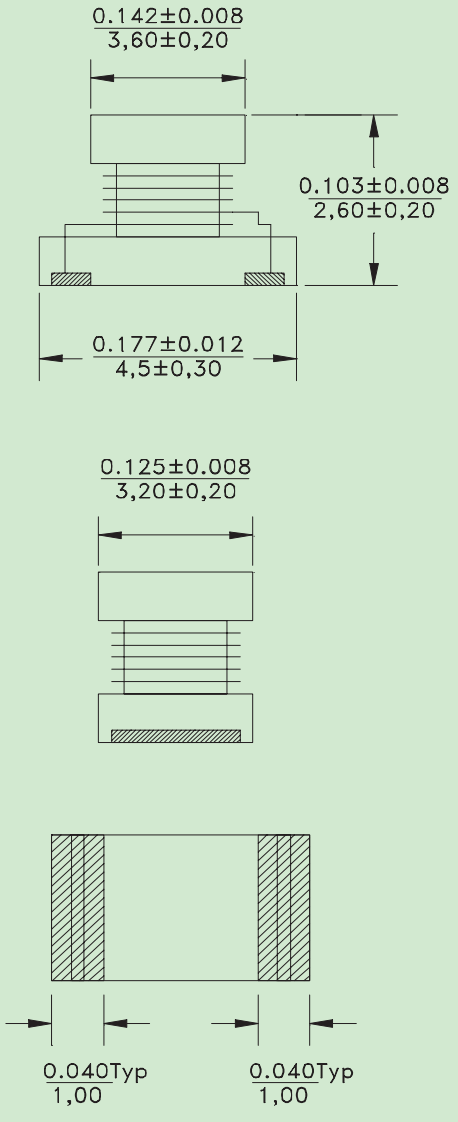
|---|---|---|---|---|---|---|---|
| 101K | 100 | 1 | 35 | 0.796 | 6.8 | 2.5 | 175 |
| 121K | 120 | 1 | 40 | 0.796 | 6.2 | 3.0 | 165 |
| 151K | 150 | 1 | 40 | 0.796 | 5.5 | 3.7 | 155 |
| 181K | 180 | 1 | 40 | 0.796 | 5.0 | 4.5 | 135 |
| 221K | 220 | 1 | 40 | 0.796 | 4.5 | 5.4 | 125 |
| 271K | 270 | 1 | 40 | 0.796 | 4.0 | 6.8 | 115 |
| 331K | 330 | 1 | 40 | 0.796 | 3.7 | 8.2 | 100 |
| 391K | 390 | 1 | 40 | 0.796 | 3.3 | 9.7 | 90 |
| 471K | 470 | 0.01 | 40 | 0.796 | 3.0 | 12 | 80 |
| 561K | 560 | 0.01 | 40 | 0.796 | 2.7 | 15 | 70 |
| 681K | 680 | 0.01 | 40 | 0.796 | 2.5 | 17 | 65 |
| 821K | 820 | 0.01 | 40 | 0.796 | 2.2 | 21 | 60 |
| 102K | 1000 | 0.01 | 40 | 0.252 | 2.0 | 25 | 50 |
| 122K | 1200 | 0.01 | 40 | 0.252 | 1.8 | 30 | 45 |
| 152K | 1500 | 0.01 | 40 | 0.252 | 1.6 | 37 | 40 |
| 182K | 1800 | 0.01 | 40 | 0.252 | 1.5 | 45 | 35 |
| 222K | 2200 | 0.01 | 40 | 0.252 | 1.3 | 50 | 30 |

### OUTLINE DRAWING:




Dimension: inch/mm

### TECHNICAL INFORMATION:

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



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