

**ABRACON, LLC  
ENGINEERING/PROCESS CHANGE NOTIFICATION FORM**

**ABRACON ENGINEERING ORIGINATOR:**

IMPLEMENTATION DATE: 01/07/2019

\_\_\_\_\_  
Manager

SCD/DRAWING AFFECTED:

[AISC-1210H Series Surface Mount Shielded Power Inductor](#)

NOTIFICATION DATE:

01/07/2019

REV: A.

NEW REV: \_B\_

**EFFECTIVITY DATE: 01/07/2019**

**ECN# M1045**

**REASON FOR CHANGE**

**Factory notice of discontinuation**

**DETAILS OF SPECIFICATION CHANGE:**

Last Time Buy Feb 01, 2019

No Alternative Part available at this time.

**APPLICATION INFORMATION**

(Check one)

**DISPOSITION OF CURRENT STOCK**

Scrap

Transfer to: \_\_\_\_\_

Use as is

Return to vendor

**ABRACON INTERNAL APPROVAL:**

APPROVAL (PRES) \_\_\_\_\_ DATE 01/08/2019

\_\_\_\_\_ 01/08/2019

ENGINEERING VP \_\_\_\_\_ DATE 01/08/2019

PURCHASING MGR \_\_\_\_\_ DATE 01/08/2019

SALES VP \_\_\_\_\_ DATE 01/08/2019

QUALITY & PROCEESS IMPROVEMENT MGR: \_\_\_\_\_ DATE 01/08/2019

**CUSTOMER APPROVAL (If Applicable)**

ENGINEERING: NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

BUYER/PURCHASING: NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

# 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:

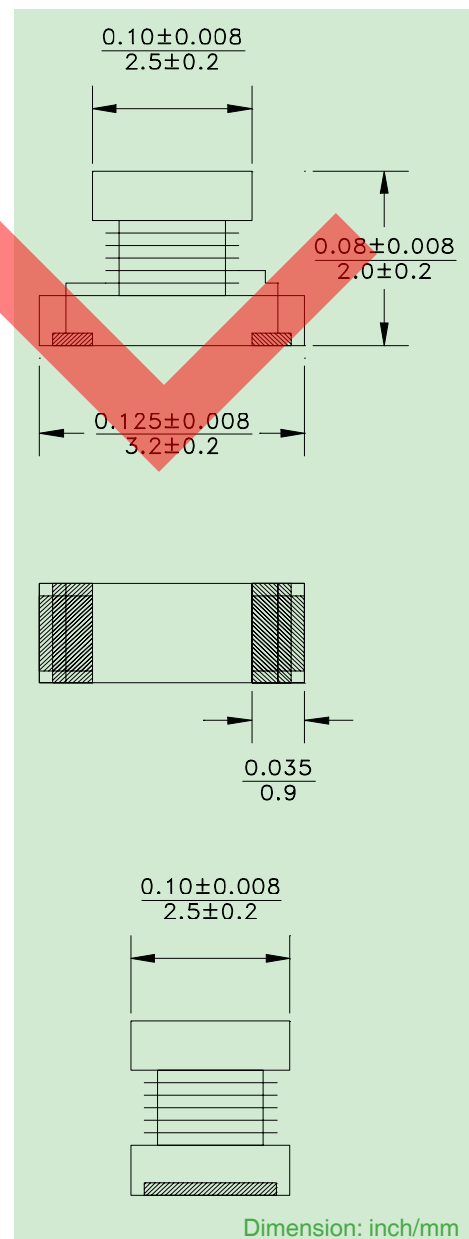
- Wireless Communications Equipment
- Networking System
- Computer Products and Peripherals

## ELECTRICAL SPECIFICATIONS:

| Part Number         | L (µH) | L Test Freq (MHz) | Q Min | Q Test Freq (MHz) | SRF Min (MHz) | R <sub>DC</sub> Max (Ω) | I <sub>bc</sub> Max (mA) |
|---------------------|--------|-------------------|-------|-------------------|---------------|-------------------------|--------------------------|
| <b>1210H Series</b> |        |                   |       |                   |               |                         |                          |
| 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<sub>DC</sub>

## TOLERANCES:

UNLESS OTHERWISE SPECIFIED:  
 inch: .XX: ± 0.015    .XXX: ± 0.010  
 mm: X,X: ± 0.38    X,XX: ± 0.25

