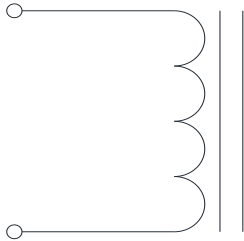


| Rev | Description | By | Date |
|-----|---|----|-----------|
| C | Added SRF, Capacitance in electrical specifications and changed lead length | KA | 9-Jul-19 |
| D | Corrected pin dimensions and DC bias graph | AG | 17-Sep-20 |

ELECTRICAL SPECIFICATIONS @ 25°C

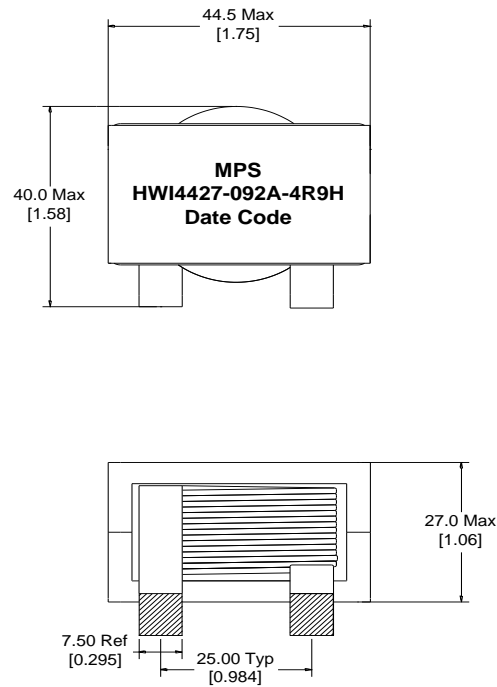
L: 4.9μH±15% @ 10kHz, 1Vrms
 Isat: ΔL ≤ 10% @116A
 ΔL ≤ 30% @205A
 Irms: ΔT ≤ 20°C @ 61A
 ΔT ≤ 40°C @92A
 SRF: 17 MHz Typ
 Capacitance: 16 pF Typ
 DCR: 0.7mΩ Max
 Hipot: 500Vdc, 1mA, 5s, wdg to core
 Insulation Class: Class H 180°C
 RoHS Compliant: Yes

SCHEMATIC



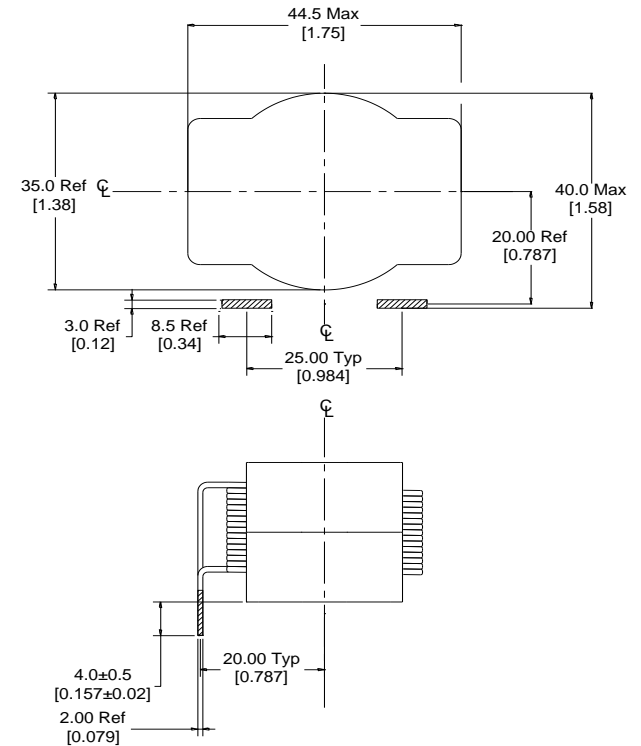
MARKING

MPS
 HWI4427-092A-4R9H_REV#
 Date Code



DIMENSIONS

Recommended PCB Layout



Dimensions: mm/[inch]

Notice of Proprietary Property

These drawings and specifications are the property of MPS and shall not be, reproduced, copied or used as the basis of manufacture of sale of apparatus without express written authorization



MPS INDUSTRIES, INC.

www.mpsind.com

Tel: (310) 325-1043 Fax: (310) 325-1044

Description

Helical Wound Inductor

Part Number

HWI4427-092A-4R9H

REV

D

Dimensions

Unless otherwise specified
 .XX ± 0.254mm [.010"]
 .XXX ± 0.13mm [.005"]

DRAWN BY:
 CHECKED BY:

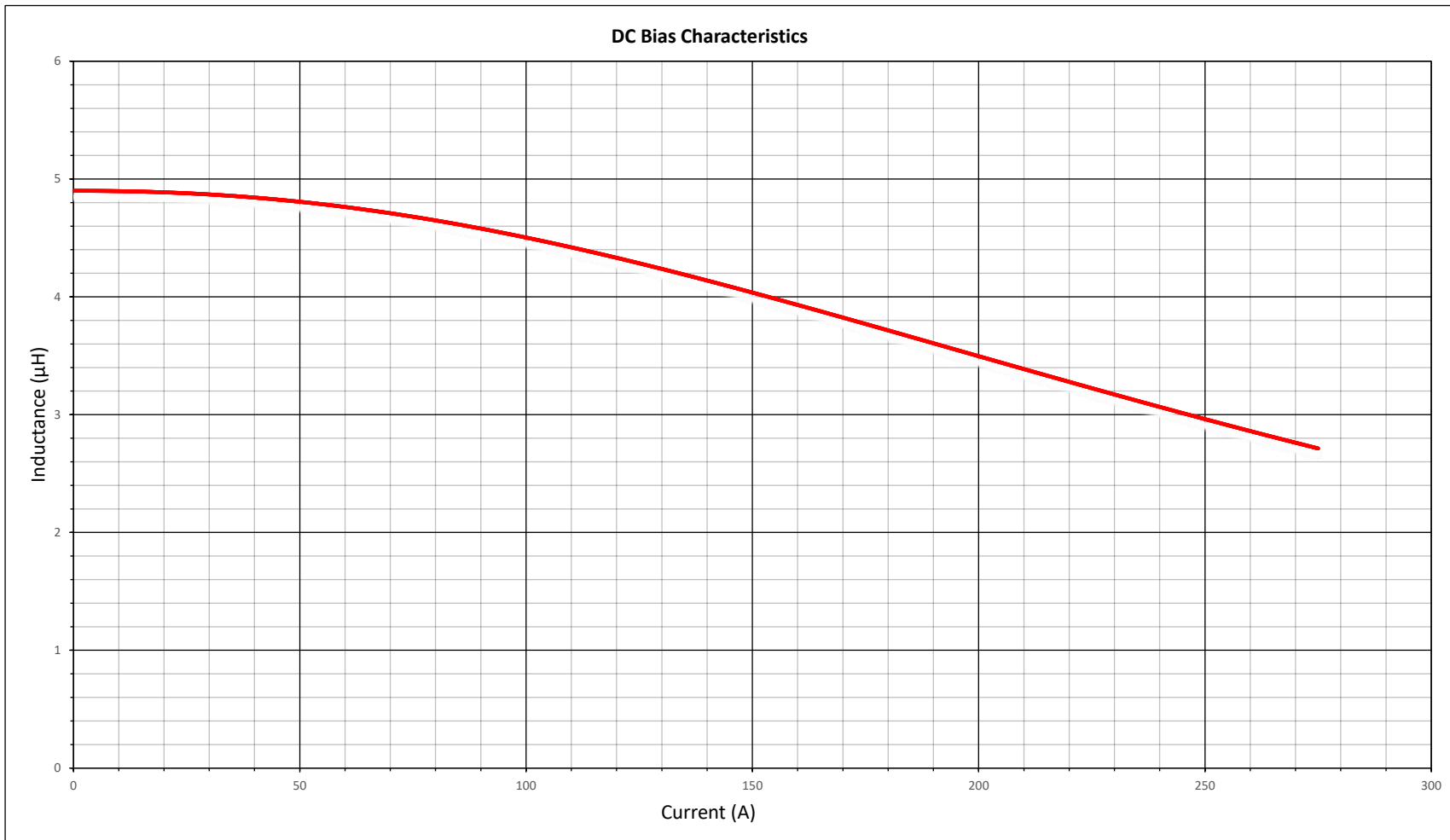
MIG 17-Mar-16
 KC 18-Mar-16

SIZE
A

WEIGHT: 190 gms

SHEET: 1 OF 2

| Rev | Description | By | Date |
|-----|---|----|-----------|
| C | Added SRF, Capacitance in electrical specifications and changed lead length | KA | 9-Jul-19 |
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Dimensions
 Unless otherwise specified
 .XX ± 0.254mm [.010"]
 .XXX ± 0.13mm [.005"]

DRAWN BY:
 CHECKED BY:

MIG
 KC

17-Mar-16
 18-Mar-16

SIZE
A

SCALE: X:X



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Tel: (310) 325-1043 Fax: (310) 325-1044

Description

Helical Wound Inductor

Part Number

HWI4427-092A-4R9H

REV

D

WEIGHT: 190 gms

SHEET: 2 OF 2