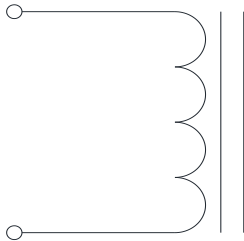


Rev	Description	By	Date
C	Added SRF, Capacitance in electrical specifications and changed lead length	KA	9-Jul-19
D	Corrected pin dimensions and DC bias graph	AG	17-Sep-20

### 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
DCR:	0.7mΩ Max
SRF:	17 MHz Typ
Capacitance:	16 pF Typ
Hipot:	500Vdc, 1mA, 5s, wdg to core
Insulation Class:	Class H 180°C
RoHS Compliant:	Yes

### SCHEMATIC

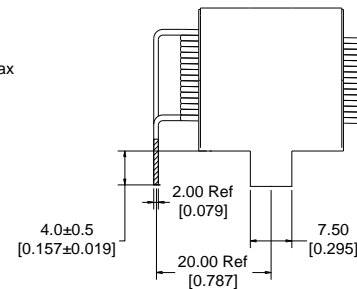
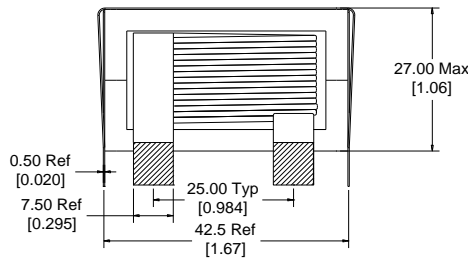
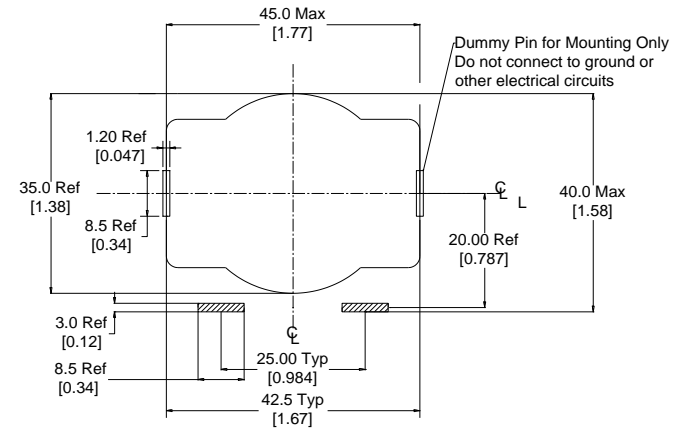
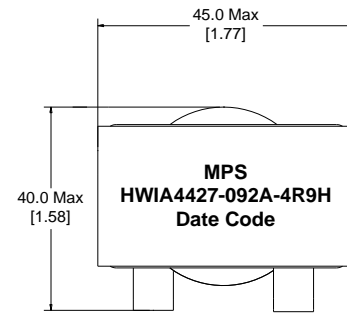


### MARKING

MPS  
HWIA4427-092A-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

<b>Dimensions</b> Unless otherwise specified .XX ± 0.254mm [.010"] .XXX ± 0.13mm [.005"]	DRAWN BY: CHECKED BY:	MIG KC	17-Mar-16 18-Mar-16	SIZE <b>A</b>
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MPS INDUSTRIES, INC.

[www.mpsind.com](http://www.mpsind.com)

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

Description

**Helical Wound Inductor**

Part Number

**HWIA4427-092A-4R9H**

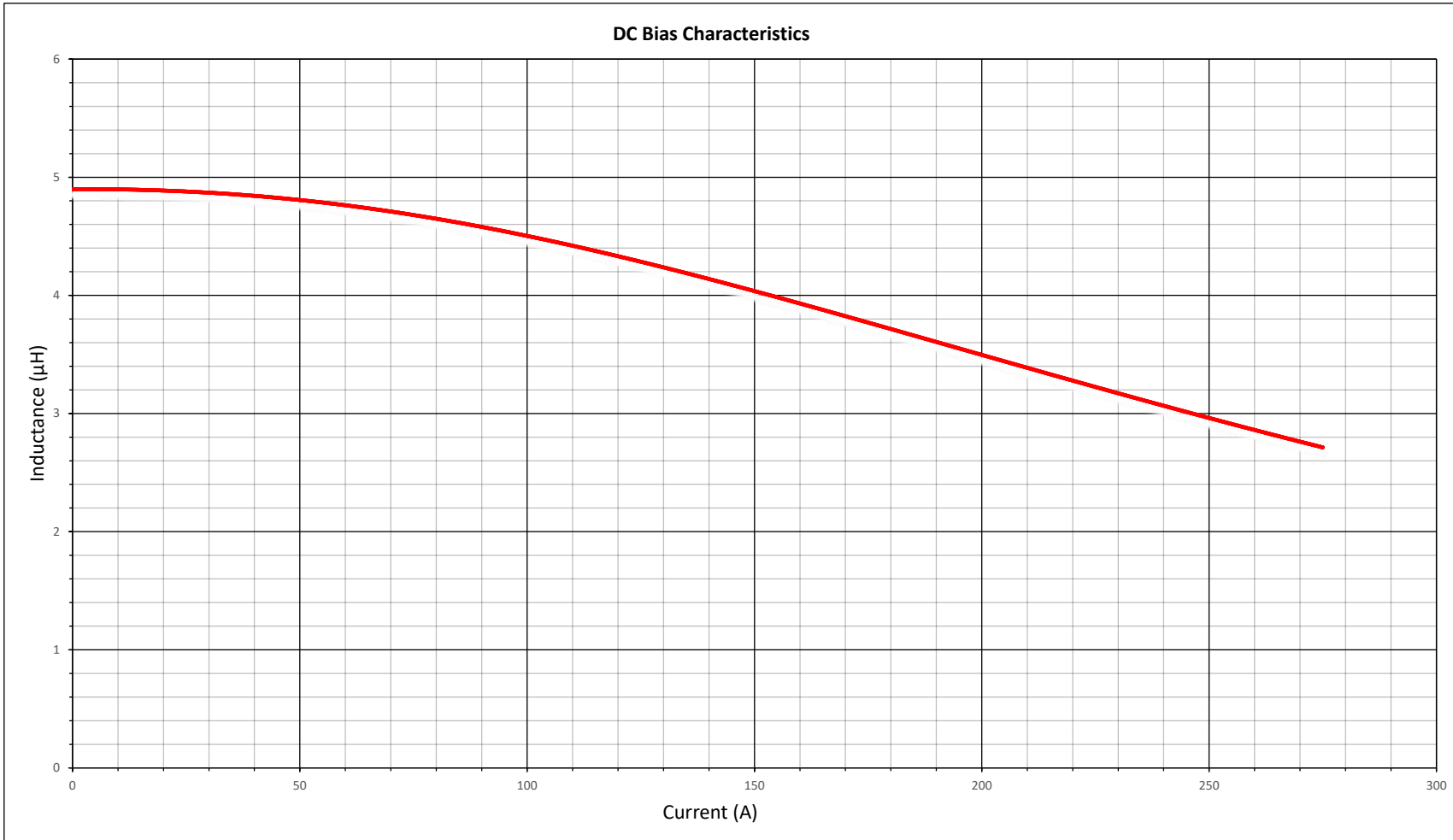
REV

**D**

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
D	Corrected pin dimensions and DC bias graph	AG	17-Sep-20



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Description

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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**

Part Number

**HWIA4427-092A-4R9H**

REV

**D**

SCALE: X:X

WEIGHT: 190 gms

SHEET: 2 OF 2