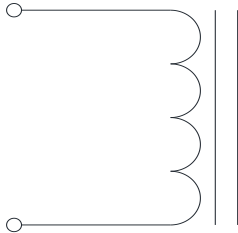


Rev	Description	By	Date
C	Added SRF, Capacitance and changed lead length	KA	9-Jul-19
D	Corrected pin dimensions and DC bias graph	AG	17-Sep-20

**ELECTRICAL SPECIFICATIONS @ 25°C**

L: 3.3μH±15% @ 10kHz, 1Vrms  
 Isat: ΔL ≤ 10% @95A  
           ΔL ≤ 30% @183A  
 Irms: ΔT ≤ 20°C @ 80A  
        ΔT ≤ 40°C @122A  
 DCR: 0.4mΩ Max  
 SRF: 22 MHz Typ  
 Capacitance: 15 pF Typ  
 Hipot: 500Vdc, 1mA, 5s, wdg to core  
 Insulation Class: Class H 180°C  
 RoHS Compliant: Yes

**SCHEMATIC**

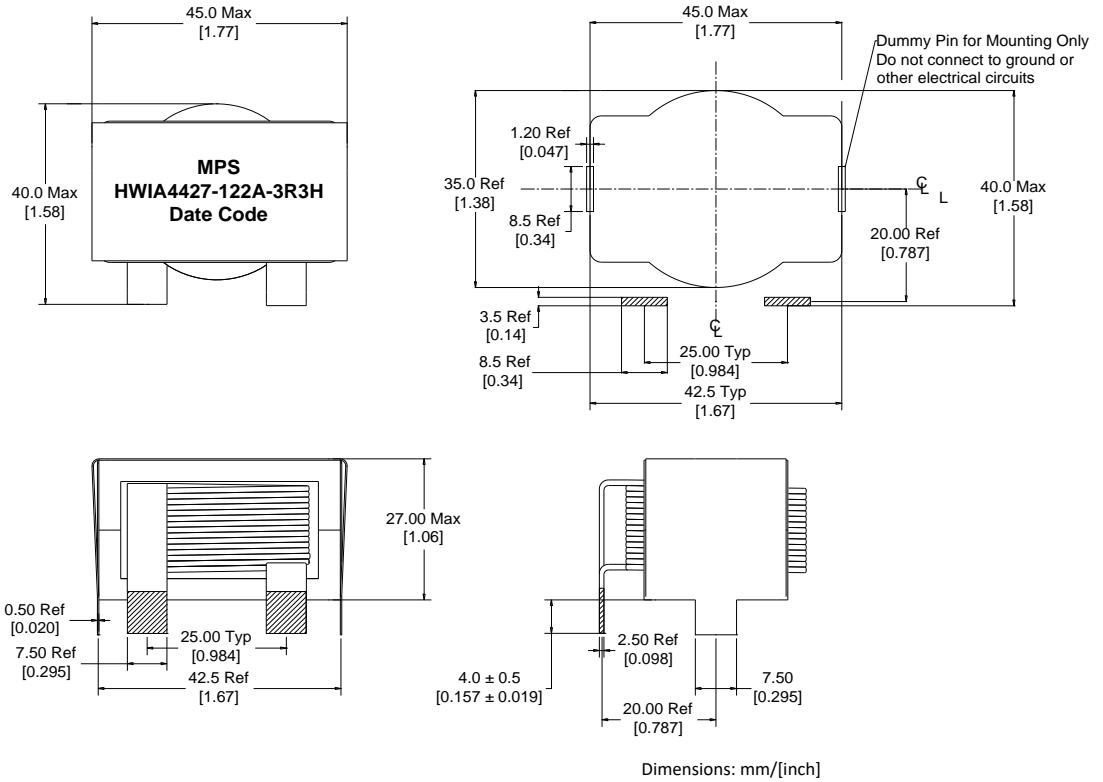


**MARKING**

MPS  
 HWIA4427-122A-3R3H\_REV#  
 Date Code


**DIMENSIONS**

**Recommended PCB Layout**

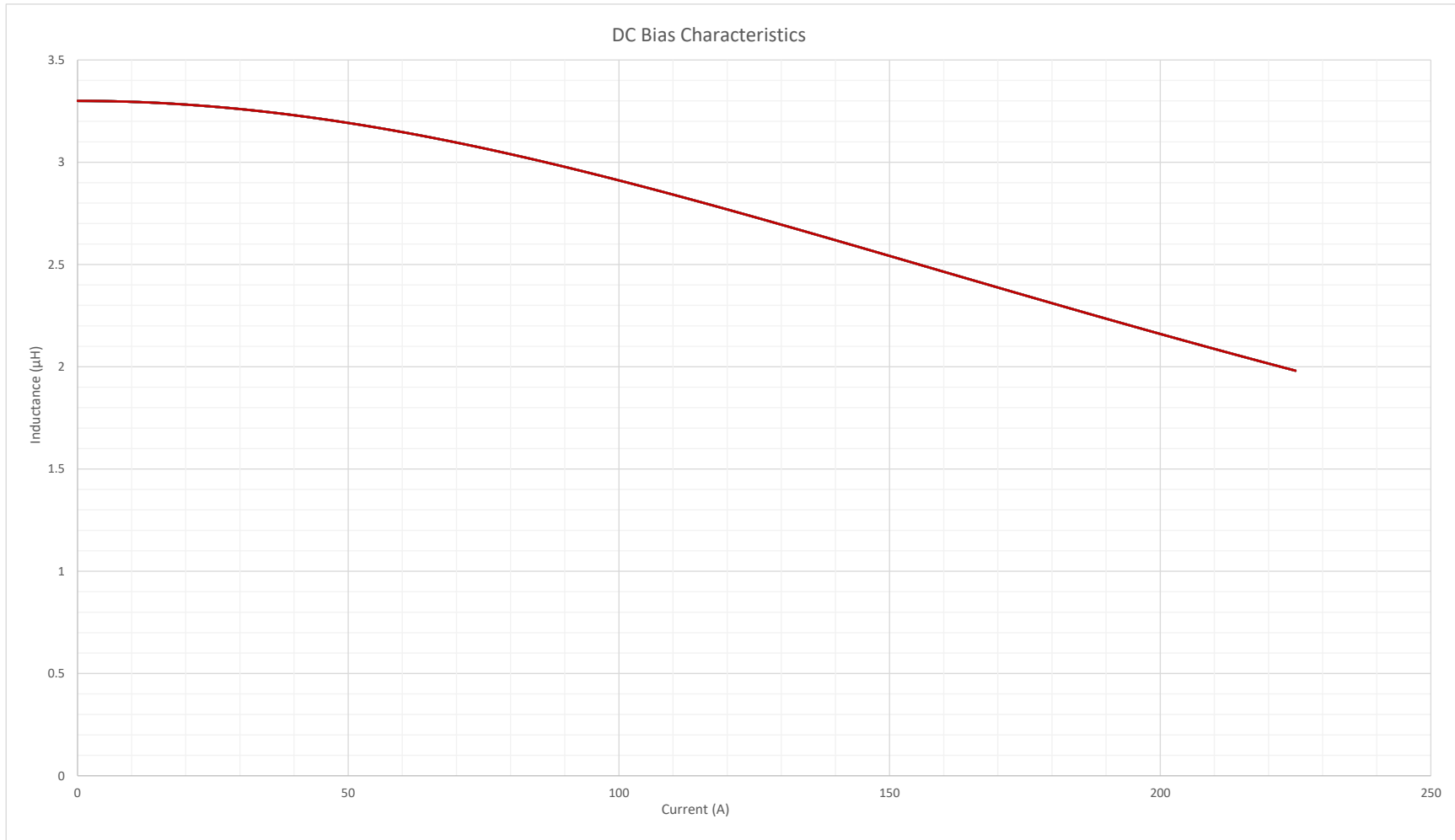


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<b>Dimensions</b> Unless otherwise specified .XX ± 0.254mm [.010"] .XXX ± 0,13mm [.005"]	DRAWN BY: CHECKED BY:	MIG KC	17-Mar-16 18-Mar-16	SIZE <b>A</b>
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		<b>MPS INDUSTRIES, INC.</b> <a href="http://www.mpsind.com">www.mpsind.com</a> Tel: (310) 325-1043 Fax: (310) 325-1044	
Description <b>Helical Wound Inductor</b>			
Part Number <b>HWIA4427-122A-3R3H</b>		REV <b>D</b>	
WEIGHT: 190 gms		SHEET: 1 OF 2	

Rev	Description	By	Date
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**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**

Part Number

**HWIA4427-122A-3R3H**

SCALE: X:X

WEIGHT: 190 gms

SHEET: 2 OF 2

REV  
**D**



**MPS INDUSTRIES, INC.**

www.mpsind.com

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

Description

**Helical Wound Inductor**