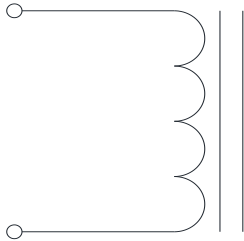


Rev	Description	By	Date
B	Released for Production	MIG	17-Mar-16
C	Corrected pin dimensions and DC bias graph	AG	17-Sep-20

**ELECTRICAL SPECIFICATIONS @ 25°C**

L: 5.6μH±15% @ 10kHz, 1Vrms  
 Isat: ΔL ≤ 10% @ 105A  
 ΔL ≤ 30% @ 218A  
 Irms: ΔT ≤ 20°C @ 45A  
 ΔT ≤ 40°C @ 68A  
 DCR: 1.3mΩ Max  
 Hipot: 500Vdc, 1mA, 5s, wdg to core  
 Insulation Class: Class H 180°C  
 RoHS Compliant: Yes

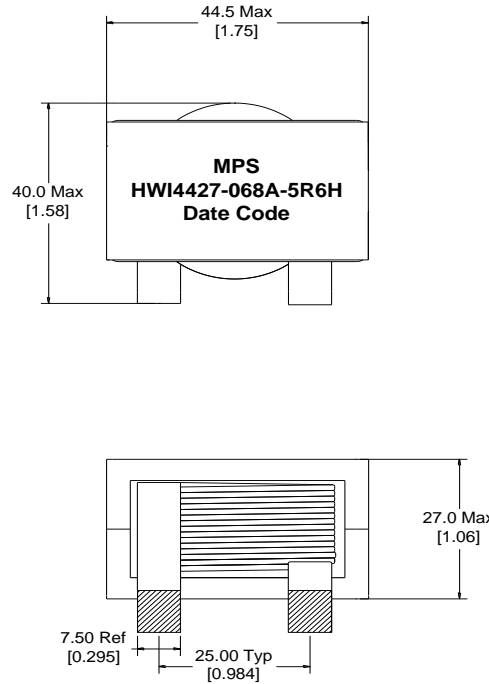
**SCHEMATIC**



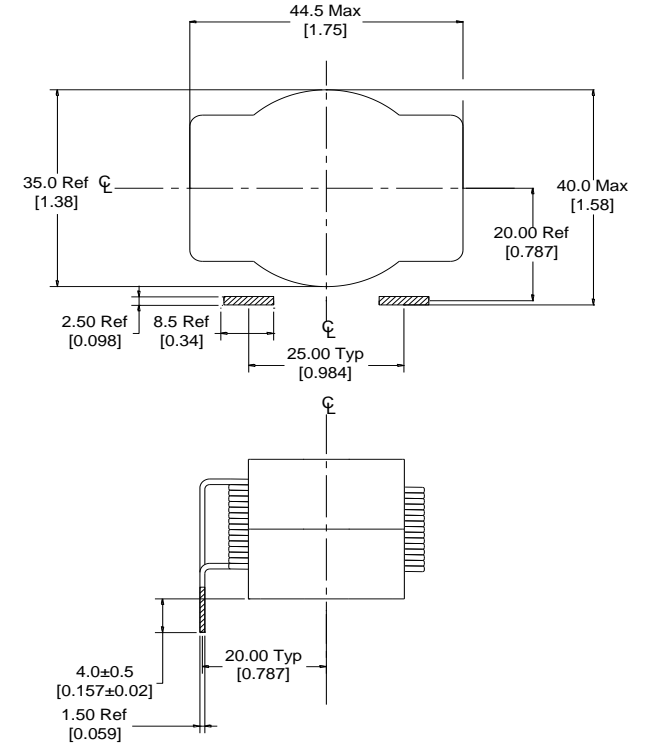
**MARKING**

MPS  
 HWI4427-068A-5R6H\_REV#  
 Date Code

**DIMENSIONS**



**Recommended PCB Layout**



Dimensions: mm/[inch]

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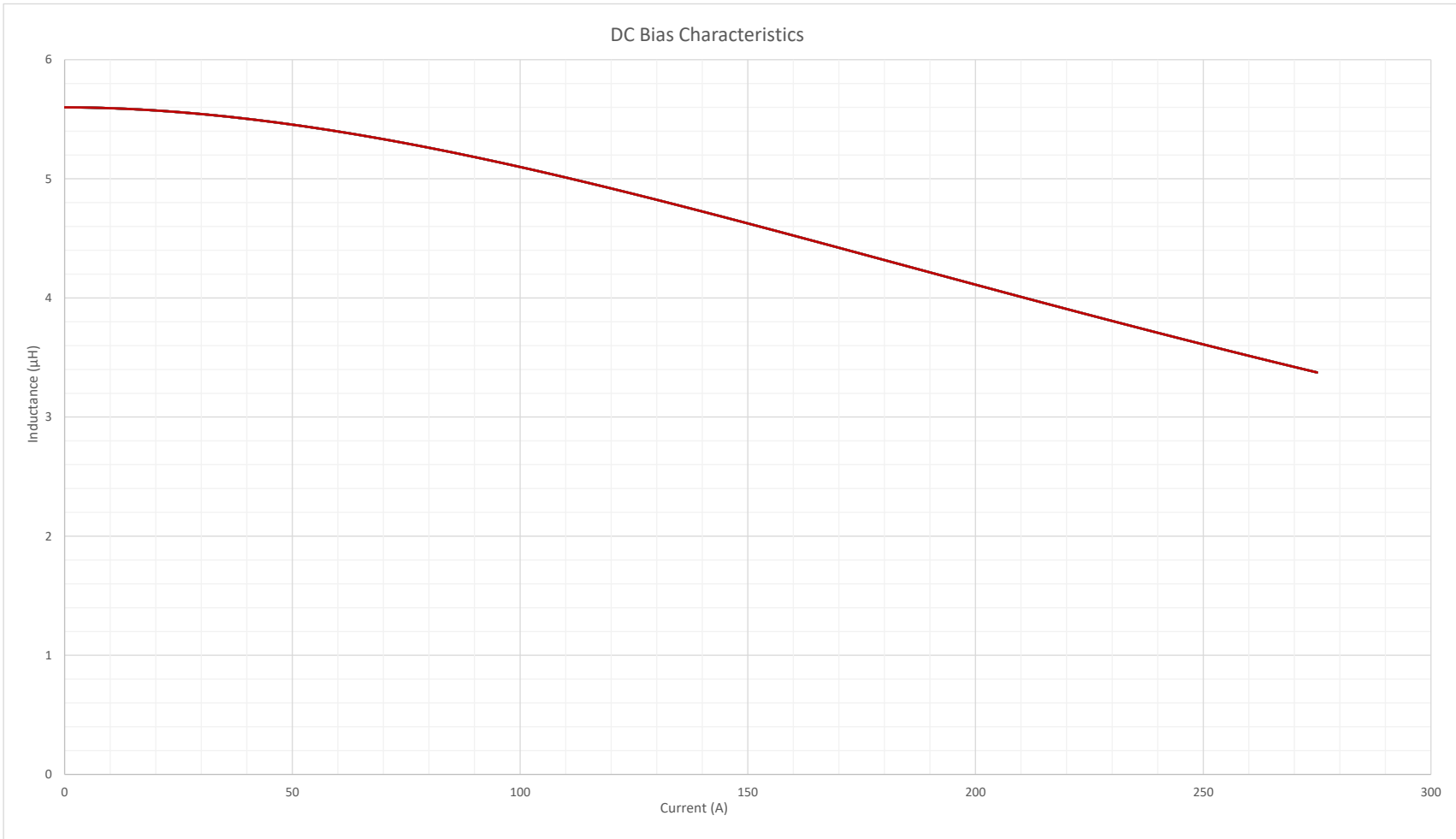
Tel: (310) 325-1043 Fax: (310) 325-1044

Description

**Helical Wound Inductor**

Dimensions	DRAWN BY:	MIG	17-Mar-16	SIZE	Part Number	REV
Unless otherwise specified .XX ± 0.254mm [.010"] .XXX ± 0.13mm [.005"]	CHECKED BY:	KC	18-Mar-16	<b>A</b>	<b>HWI4427-068A-5R6H</b>	<b>C</b>
WEIGHT: 190 gms					SHEET: 1 OF 2	

Rev	Description	By	Date
B	Released for Production	MIG	17-Mar-16
C	Corrected pin dimensions and DC bias graph	AG	17-Sep-20



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www.mpsind.com

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

Description

**Helical Wound Inductor**

**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

**HWI4427-068A-5R6H**

REV

**C**

SCALE: X:X

WEIGHT: 190 gms

SHEET: 2 OF 2