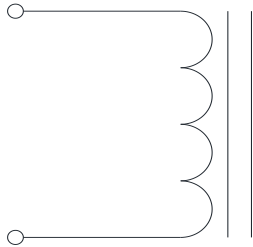


Rev	Description	By	Date
B	Released for Production	MIG	17-Mar-16
C	Corrected pin dimensions and DC bias graph	AG	17-Sep-20

### ELECTRICAL SPECIFICATIONS @ 25°C

L:	19μH±15% @ 10kHz, 1Vrms
Isat:	ΔL ≤ 10% @ 58A
	ΔL ≤ 30% @ 102A
Irms:	ΔT ≤ 20°C @ 29A
	ΔT ≤ 40°C @ 44A
DCR:	3.0mΩ Max
Hipot:	500Vdc, 1mA, 5s, wdg to core
Insulation Class:	Class H 180°C
RoHS Compliant:	Yes

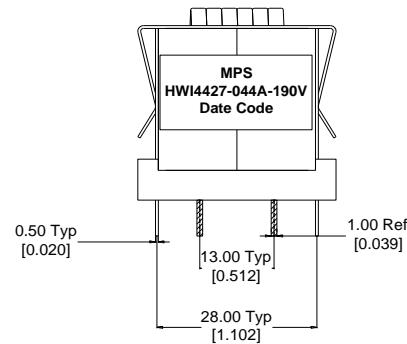
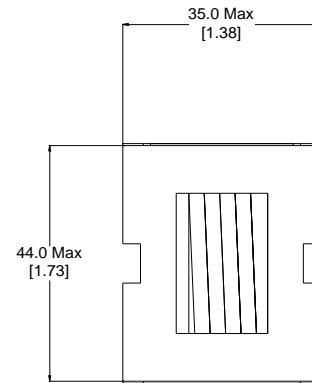
### SCHEMATIC



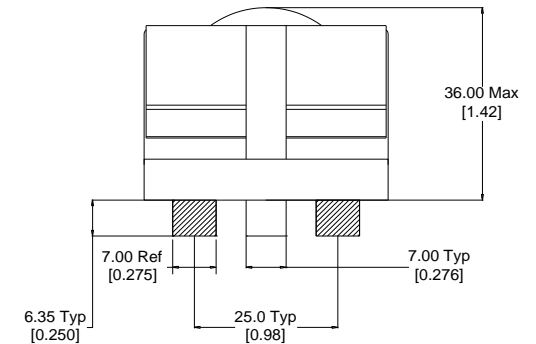
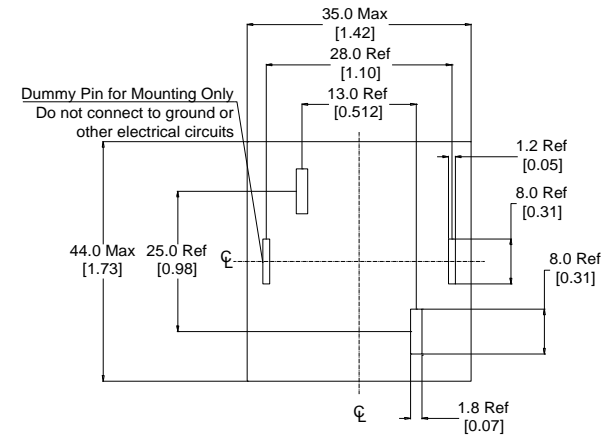
### MARKING

MPS  
HWI4427-044A-190V\_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

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



MPS INDUSTRIES, INC.

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

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

Description

**Helical Wound Inductor**

Part Number

**HWI4427-044A-190V**

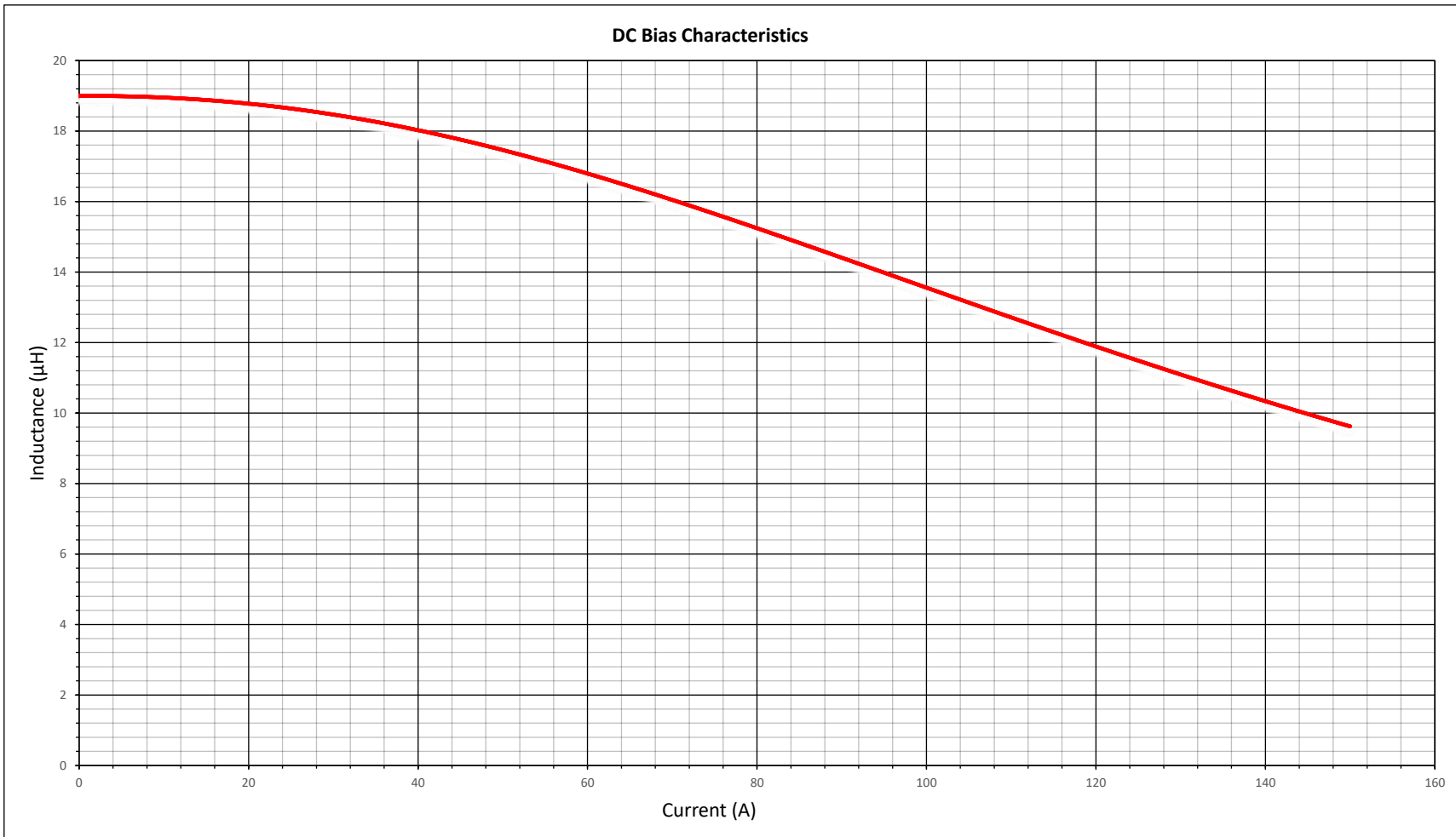
REV

**C**

WEIGHT: 200 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



**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		<b>Helical Wound Inductor</b>	
Part Number	<b>HWI4427-044A-190V</b>		REV
SCALE: X:X	WEIGHT: 200 gms	SHEET: 2 OF 2	

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

**C**