

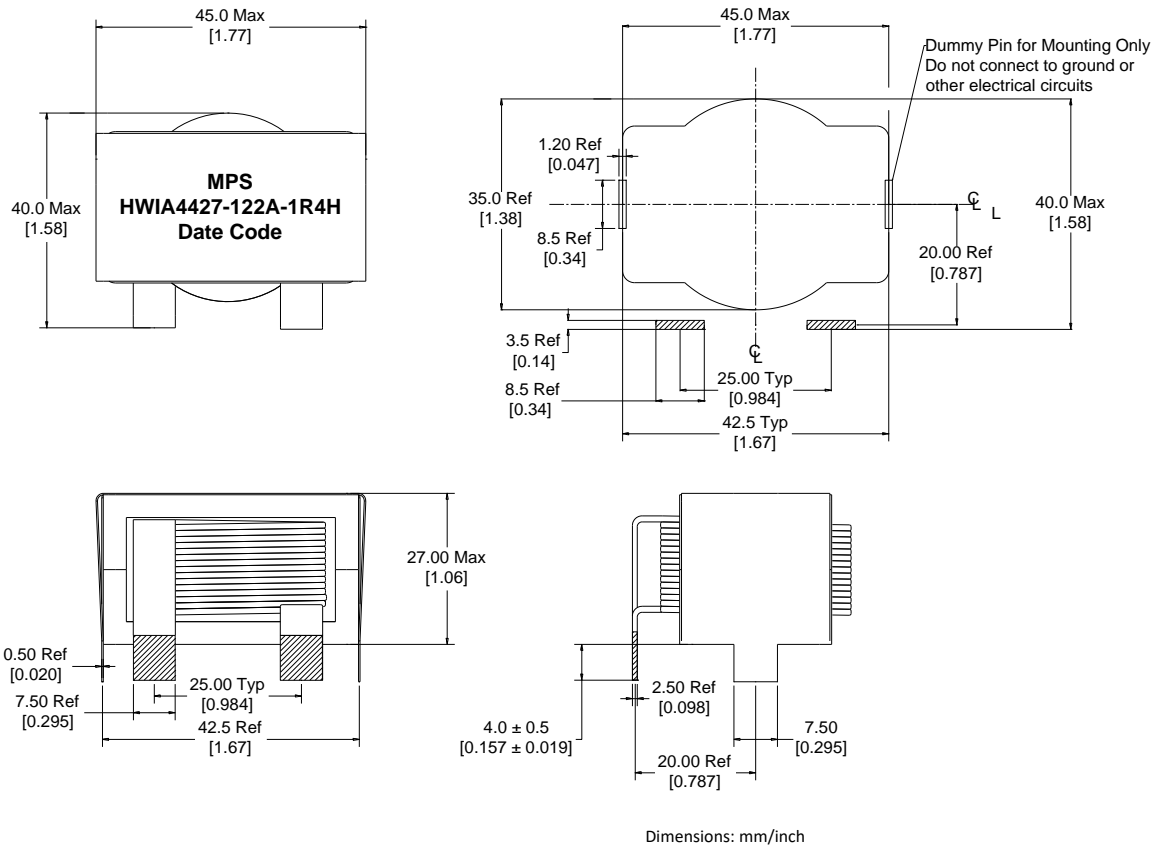
Rev	Description	By	Date
D	Changed lead length	KA	19-Oct-19
E	Corrected pin dimensions and DC bias graph	AG	17-Sep-20

**ELECTRICAL SPECIFICATIONS @ 25°C**

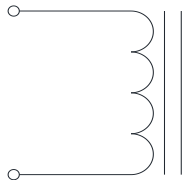
L: 1.4μH±15% @ 10kHz, 1Vrms  
 ΔL≤10% @ 205A  
 ΔL≤30% @ 435A  
 Irms: ΔT≤20°C @ 80A  
 ΔT≤40°C @ 122A  
 DCR: 0.4mΩ Max  
 SRF: 38MHz Typ  
 Hipot: 500Vdc, 1mA, 5s, wdg to core  
 RoHS Compliant: Yes

**DIMENSIONS**

**Recommended PCB Layout**



**SCHEMATIC**



**MARKING**

MPS  
 HWIA4427-122A-1R4H\_REV#  
 Date Code

**Notice of Proprietary Property**  
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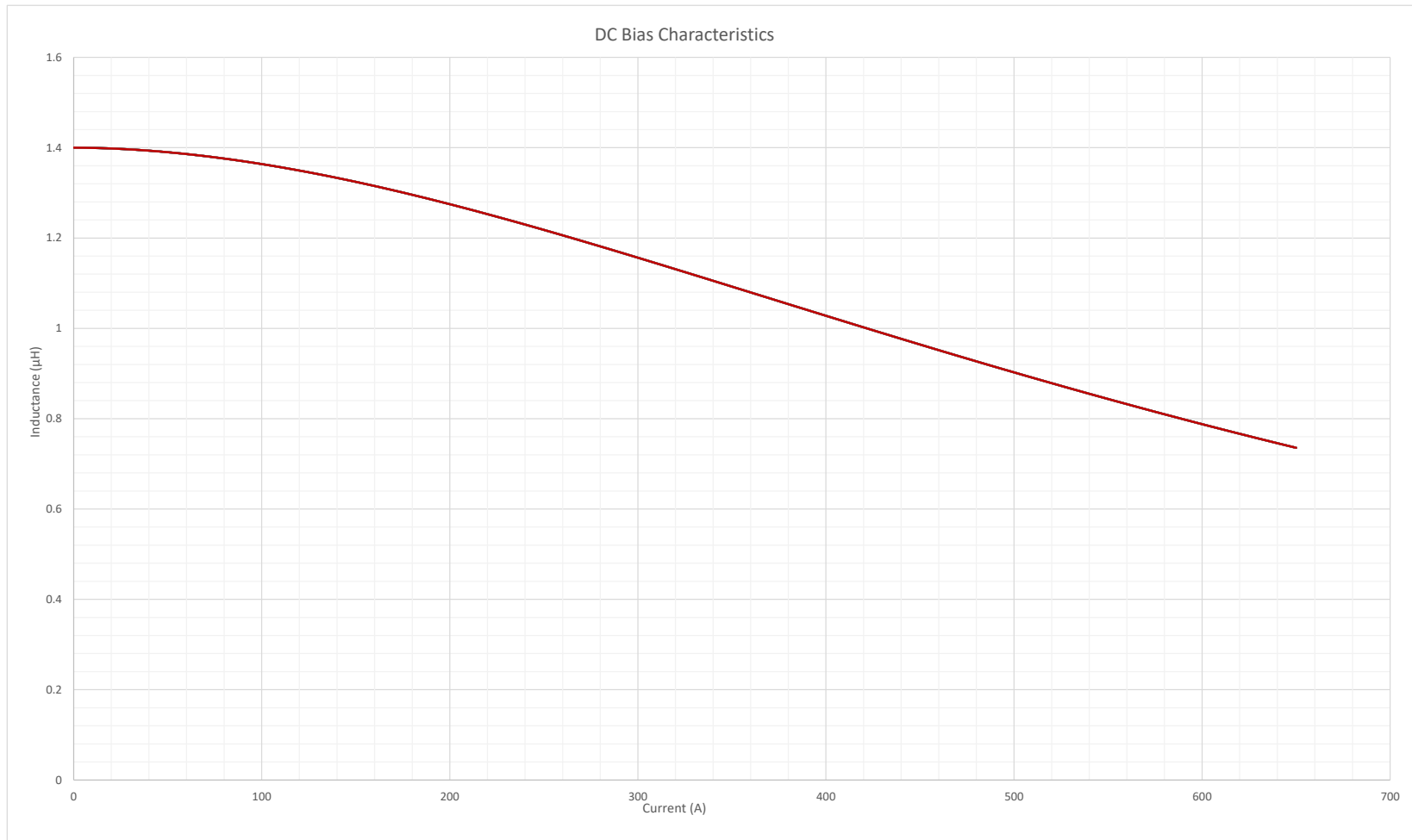
 **MPS INDUSTRIES, INC.**  
[www.mpsind.com](http://www.mpsind.com)  
 Tel: (310) 325-1043 Fax: (310) 325-1044

Description  
**Helical Wound Inductor, 1.4 μH**

<b>Dimensions: mm [inch]</b> Unless otherwise specified .X ± 1.02[0.040"] .XX ± 0.51[0.020"]	DRAWN BY: CHECKED BY:	KLC AG	17-Mar-16 18-Mar-16	SIZE <b>A</b>
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Part Number <b>HWIA4427-122A-1R4H</b>	REV <b>E</b>
WEIGHT: 180g	SHEET: 1 OF 2

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D	Changed lead length	KA	19-Oct-19
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**Dimensions**  
 Unless otherwise specified  
 .X ± 1.02[0.040"]  
 .XX ± 0.51[0.020"]

DRAWN BY:  
 CHECKED BY:

KLC  
 AG  
 17-Mar-16  
 18-Mar-16

SIZE  
**A**

Part Number

**Helical Wound Inductor, 1.4 µH**

**HWIA4427-122A-1R4H**

REV

**E**

SCALE: X:X

WEIGHT: XX gms

SHEET: 2 OF 2