

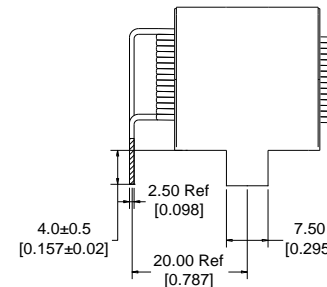
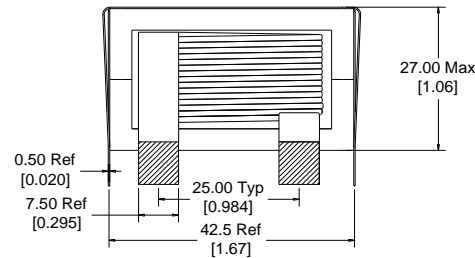
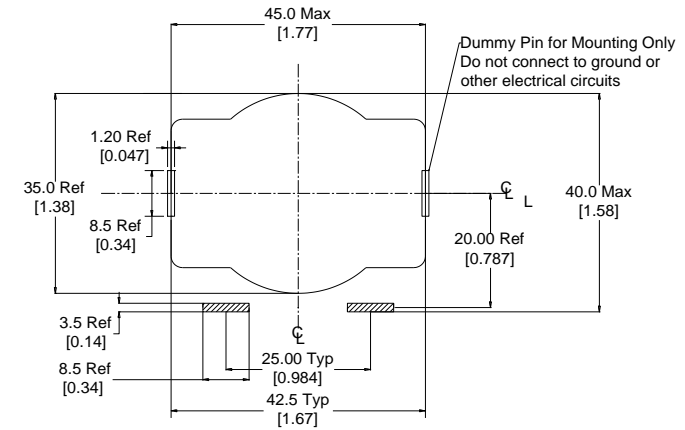
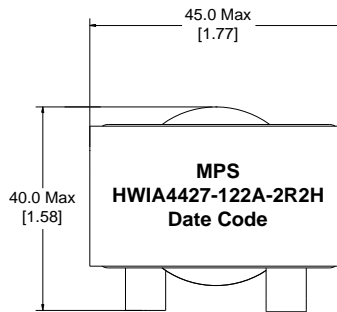
| Rev | Description | By | Date |
|-----|---|----|-----------|
| C | Changed Lead length added SRF and Capacitance | KA | 31-Aug-18 |
| D | Corrected pin dimensions and DC bias graph | AG | 17-Sep-20 |

ELECTRICAL SPECIFICATIONS @ 25°C

| | |
|-------------------|------------------------------------|
| L: | 2.2μH±15% @ 10kHz, 1Vrms |
| Isat: | ΔL ≤ 10% @174A ΔL ≤ 30% @308A |
| Irms: | ΔT ≤ 20°C @ 80A ΔT ≤ 40°C @122A |
| DCR: | 0.4mΩ Max |
| SRF: | 50 MHz |
| Capacitance: | 4.5 pF |
| Hipot: | 500Vdc, 1mA, 5s, wdg to core |
| Insulation Class: | Class H 180°C |
| RoHS Compliant: | Yes |

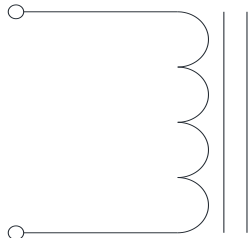
DIMENSIONS

Recommended PCB Layout



Dimensions: mm/[inch]

SCHEMATIC



MARKING

MPS
HWIA4427-122A-2R2H_REV#
Date Code

Notice of Proprietary Property

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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 |
|---|--------------------------|-----------|------------------------|------------------|



MPS INDUSTRIES, INC.

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

Description

Helical Wound Inductor

Part Number

HWIA4427-122A-2R2H

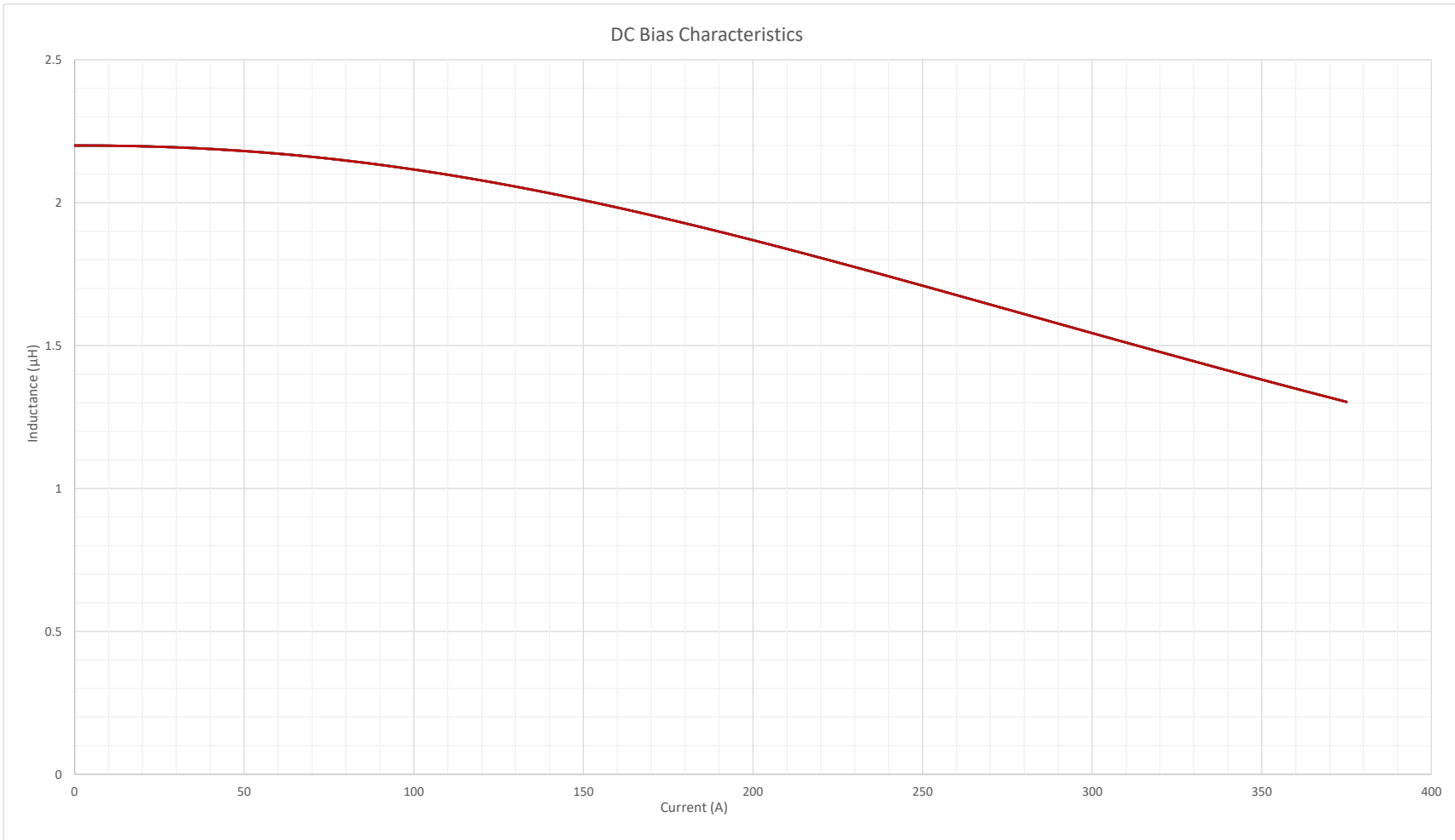
REV

D

WEIGHT: 190 gms

SHEET: 1 OF 2

| Rev | Description | By | Date |
|-----|---|----|-----------|
| C | Changed Lead length added SRF and Capacitance | KA | 31-Aug-18 |
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| | | | |
|-------------|---------------------------|-------------------------------|-----|
| Description | | Helical Wound Inductor | |
| Part Number | HWIA4427-122A-2R2H | | REV |
| | D | | |

| | | | | |
|---|-------------|-----|-----------|------------|
| Dimensions Unless otherwise specified | DRAWN BY: | MIG | 17-Mar-16 | SIZE |
| .XX ± 0,254mm [.010"] | CHECKED BY: | KC | 18-Mar-16 | A |
| .XXX ± 0,13mm [.005"] | | | | SCALE: X:X |

WEIGHT: 190 gms

SHEET: 2 OF 2