Rev	Description	Ву	Date
С	Added SRF, Capacitance and shortened leads	KA	3-Jul-19
D	Corrected pin dimensions and DC bias graph	AG	17-Sep-20

DIMENSIONS

ELECTRICAL SPECIFICATIONS @ 25°C

3.3µH±15% @ 10kHz, 1Vrms L:

Isat: ΔL ≤ 10% @95A

ΔL ≤ 30% @183A $\Delta T \le 20^{\circ}C$ @ 80A Irms:

ΔT ≤ 40°C @122A

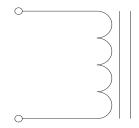
0.4mΩ Max DCR: SRF: 22.5 MHz Typ

Capacitance: 15 pF Typ

500Vdc, 1mA, 5s, wdg to core Hipot:

Class H 180°C Insulation Class: **RoHS Compliant:** Yes

SCHEMATIC



MARKING

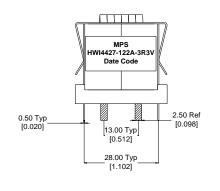
HWI4427-122A-3R3V_REV#

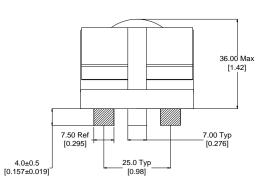
Date Code

35.0 Max [1.38] 44.0 Max [1.73]

PCB Layout 35.0 Max [1.42] 28.0 Ref [1.10] 13.0 Ref Dummy Pin for Mounting Only Do not connect to ground or [0.512] other electrical circuits 1.2 Ref [0.05] 8.0 Ref [0.31] 44.0 Max 25.0 Ref [1.73] [0.98] 8.5 Ref [0.34] _3.5 Ref [0.14]

Recommended





Dimensions: mm/[inch]

MPS INDUSTRIES, INC.

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DRAWN BY:

CHECKED BY:

Description

Dimensions Unless otherwise specified .XX ± 0.254mm [.010"] .XXX ± 0,13mm [.005"]

Notice of Proprietary Property

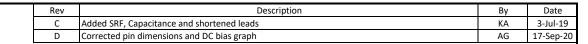
MIG 17-Mar-16 KC 18-Mar-16

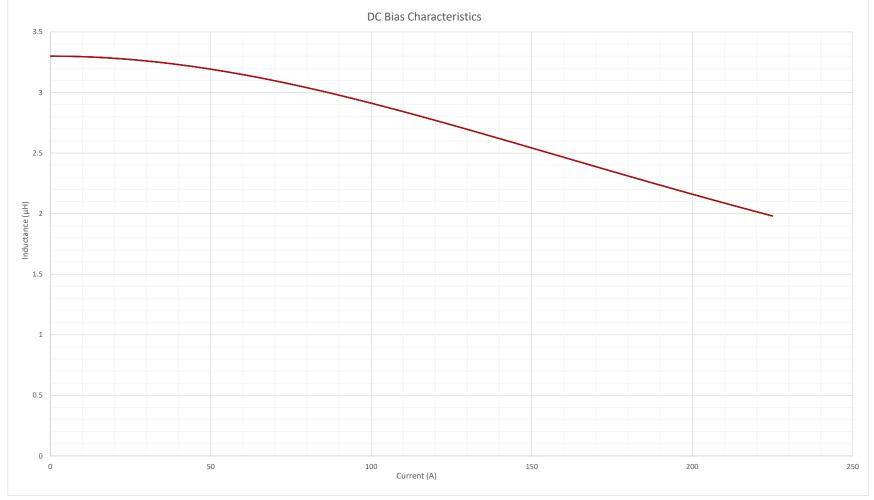
SIZE Part Number Α

Helical Wound Inductor

HWI4427-122A-3R3V

WEIGHT: 200 gms SHEET: 1 OF 2 REV D





MPS INDUSTRIES, INC. www.mpsind.com Notice of Proprietary Property Tel: (310) 325-1043 Fax: (310) 325-1044 These drawings and specifications are the property of MPS and shall not be, Description reproduced, copied or used as the basis of manufacture of sale of apparatus **Helical Wound Inductor** without express written authorization Dimensions DRAWN BY: MIG 17-Mar-16 SIZE Part Number REV Unless otherwise specified CHECKED BY: KC 18-Mar-16 Α HWI4427-122A-3R3V D .XX ± 0.254mm [.010"] .XXX ± 0,13mm [.005"] SCALE: X:X WEIGHT: 200 gms SHEET: 2 OF 2