

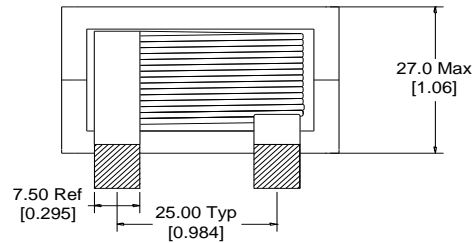
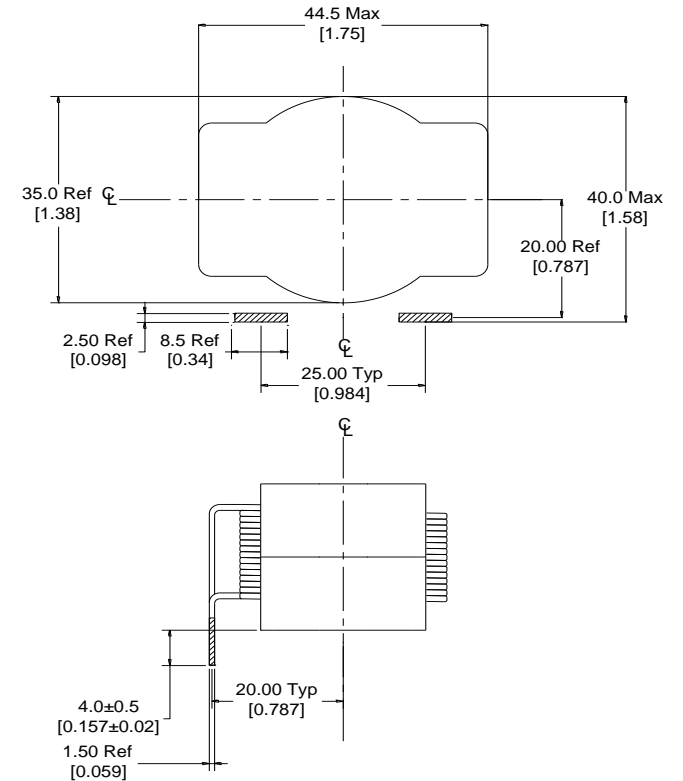
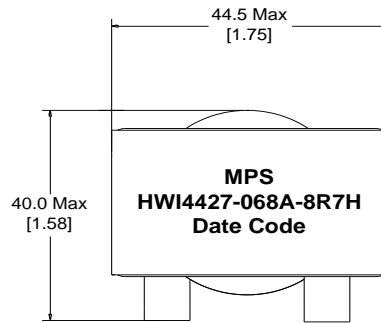
Rev	Description	By	Date
C	Changed Lead length, added SRF and Capacitance	KA	31-Aug-18
D	Corrected pin dimensions and DC bias graph	AG	17-Sep-20

ELECTRICAL SPECIFICATIONS @ 25°C

L: 8.7μH±15% @ 10kHz, 1Vrms
 Isat: ΔL ≤ 10% @87A
 ΔL ≤ 30% @154A
 Irms: ΔT ≤ 20°C @ 45A
 ΔT ≤ 40°C @68A
 DCR: 1.3mΩ Max
 SRF: 20.1 MHz
 Capacitance: 7.2 pF
 Hipot: 500Vdc, 1mA, 5s, wdg to core
 Insulation Class: Class H 180°C
 RoHS Compliant: Yes

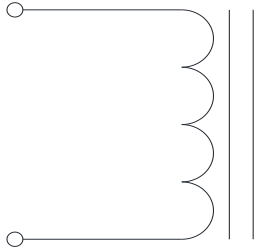
DIMENSIONS

Recommended PCB Layout



Dimensions: mm/[inch]

SCHEMATIC



MARKING

MPS
 HWI4427-068A-8R7H_REV#
 Date Code

Notice of Proprietary Property

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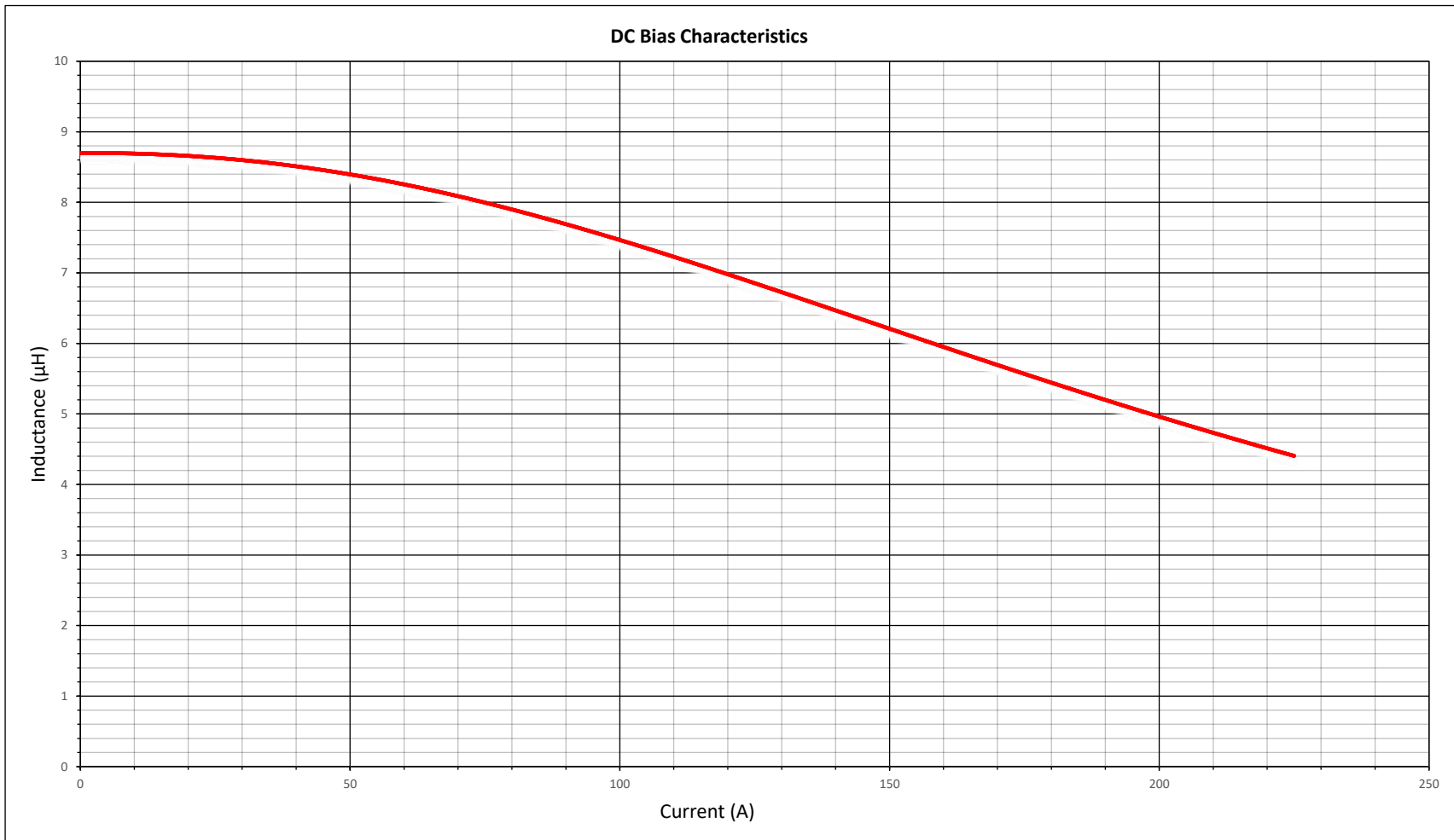
Tel: (310) 325-1043 Fax: (310) 325-1044

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-8R7H	REV D
WEIGHT: 190 gms					SHEET: 1 OF 2	

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	CHECKED BY:	KC	18-Mar-16	A	HWI4427-068A-8R7H	D
		SCALE: X:X		WEIGHT: 190 gms		SHEET: 2 OF 2