

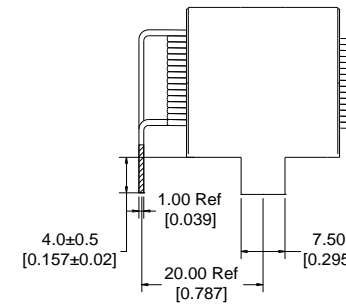
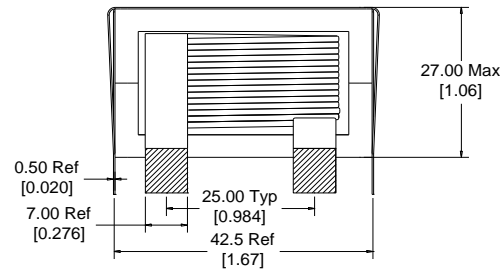
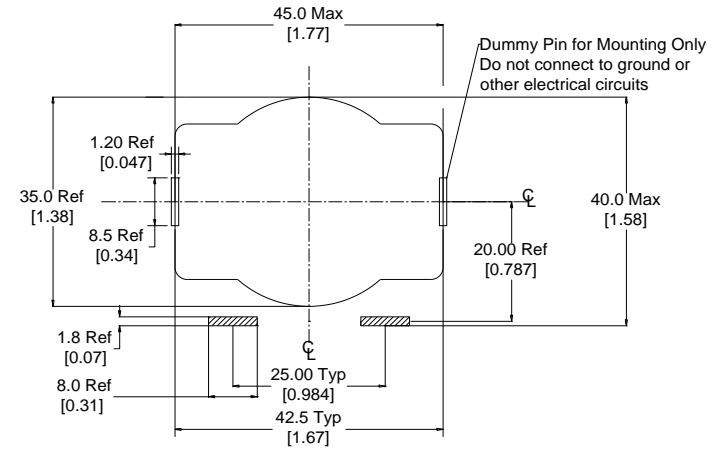
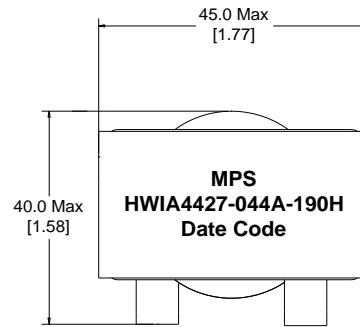
Rev	Description	By	Date
B	Released for Production	MIG	17-Mar-16
C	Corrected pin dimensions and DC bias graph	AG	17-Sep-20

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

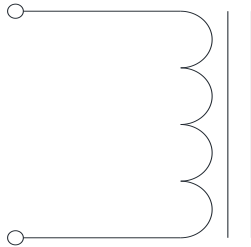
DIMENSIONS

Recommended PCB Layout



Dimensions: mm/[inch]

SCHEMATIC



MARKING

MPS
HWIA4427-044A-190H_REV#
Date Code

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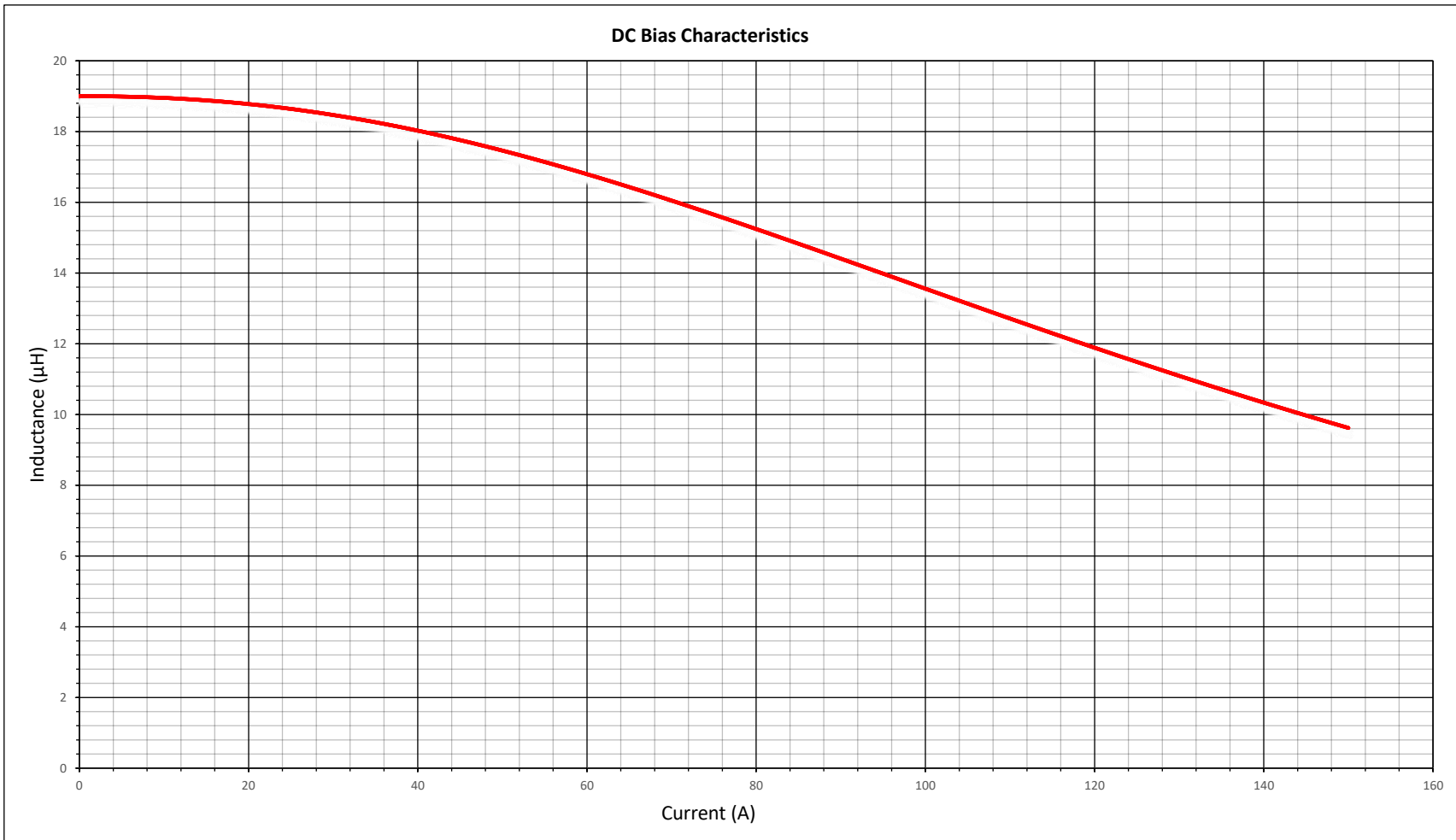
Tel: (310) 325-1043 Fax: (310) 325-1044

Description

Helical Wound Inductor

Dimensions	DRAWN BY:	MIG	17-Mar-16	SIZE	Part Number	REV
Unless otherwise specified .XX ± 0.254mm [.010"] .XXX ± 0.13mm [.005"]	CHECKED BY:	KC	18-Mar-16	A	HWIA4427-044A-190H	C
					WEIGHT: 190 gms	SHEET: 1 OF 2

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	CHECKED BY:	KC	18-Mar-16	A		
					HWIA4427-044A-190H	C
			SCALE: X:X	WEIGHT: 190 gms	SHEET: 2 OF 2	