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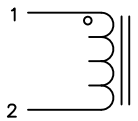
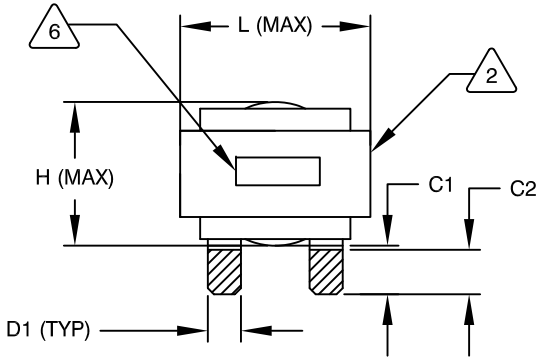
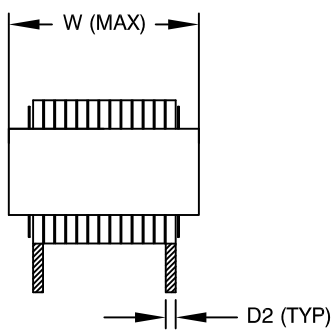
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	RJL	2/13/11	JCL	2/13/11
B	130806	SHOW EPOXY AND SILICONE, AND CHANGE DIMENSIONS	AK	8/06/13	BO	8/06/13



SCHEMATIC



FRONT VIEW



SIDE VIEW

DIMENSIONAL TOLERENCE

	mm	inch
C1	13.40±1.50	0.52 ± 0.06
C2	10.90±1.00	0.42 ± 0.04
D1	7.60 (TYP)	0.30 (TYP)
D2	2.55 (TYP)	0.10 (TYP)
L	57.0 MAX	2.25 MAX
W	57.0 MAX	2.25 MAX
H	36.0 MAX	1.42 MAX

DC-BIAS	L
0A	14.3 uH
5A	13.8 uH
10A	13.7 uH
15A	13.6 uH
20A	13.4 uH
25A	13.2 uH
30A	13.2 uH
40A	12.7 uH
50A	12.3 uH
60A	11.9 uH
70A	11.5 uH
80A	10.9 uH
90A	10.6 uH
100A	10.2 uH

7 BUILT TO RoHS COMPLIANCE

△6 IF APPLICABLE, LABEL PART NUMBER AND REVISION WHERE SHOWN

△5 APPLY VARNISH
APPLY SILICON WHERE SHOWN

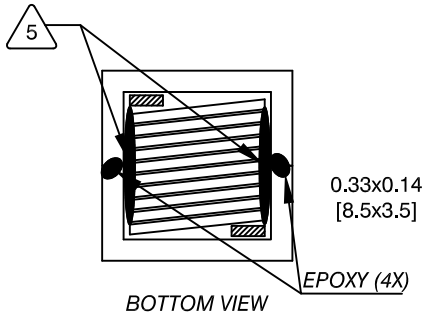
WRAP TAPE AROUND CORES
WITH CORES AND MYLAR INSULATORS
ASSEMBLY PRE-FORMED FLAT HELICAL COIL
4 CONSTRUCTION

WEIGHT: 405 GRAM (TYP)
MAX INDUCTOR TEMP RATING: 200°C
RECOMMENDED OPERATING TEMP: -40°C TO 85°C
HI-POT TEST FOR WINDING TO CORE ISOLATION. 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE @ 10KHZ = 20pF (TYP)
|z|@SRF=3.0 KILO-OHM (TYP)
SRF=9.4 MHz (TYP)
RATED CURRENT: 160 AMPS
DCR= 0.98 MILLI-OHM MAX.
L@DC BIAS: SEE TABLE ON RIGHT.
L= 14uH ± 15%., MEASURED AT 10 KHz, 0.25V, ZERO DC BIAS
3 SPECIFICATIONS:

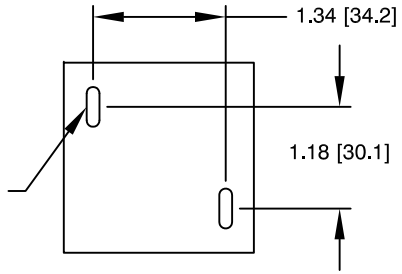
△2 WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CORE: COMPACTED POWDER CORE

1 INSULATION CLASS 130°C REQUIRED

NOTES: UNLESS OTHERWISE SPECIFIED.READ FROM BOTTOM UP.



BOTTOM VIEW



MOUNTING HOLES PATTERN

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].
TOLERANCE INCHES: .XXX=±.010 .XX=±.020 ∠=±0°30'
TOLERANCE METRICS: .XXX=±.254 .XX=±.51 ∠=±0°30'
ANGLE PROJECTION
DO NOT SCALE DRAWING

	X
AUTOCAD	
SOLIDWORKS	
SIGN	DATE
DRAWN RL	2/11/11
CHECKED JLAU	2/11/11
ENGR. JLAU	2/11/11
APPR. JLAU	2/11/11

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353 W GROVE AVE
ORANGE, CA 92865

TITLE: High Current Helical Inductor
14 uH, 160 Amps, Horizontal

SIZE	DWG. NO.	REV
B	ES55202-140M-160AH	B

SCALE NOT_TO_SCALE SHEET 1 OF 1

CAD-FILE: