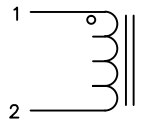


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REVISION HISTORY

REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	RJL	2/13/11	JCL	2/13/11



SCHMATIC

DIMENSIONAL TOLERANCE

	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	36.0 MAX	1.42 MAX
H	36.0 MAX	1.42 MAX

7 BUILT TO RoHS COMPLIANCE AND LEAD FREE.

6 MARK PART NUMBER AND REVISION WHERE SHOWN

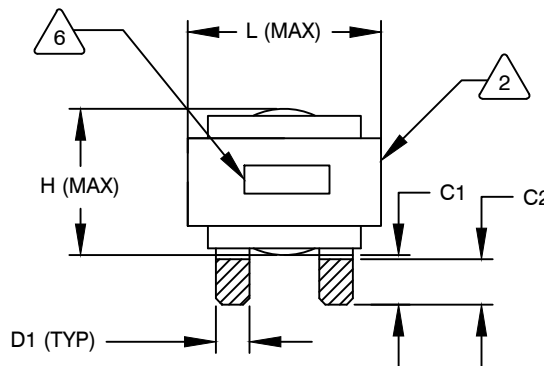
5 VANISH PART AND CURE
APPLY SILICON WHERE SHOWN

4 WRAP TAPE AROUND CORES WITH CORES AND NOMEX SPACERS ASSEMBLE PRE FORMED FLAT HELICAL COIL CONSTRUCTION
WEIGHT: 405 GRAM (Typ)
RECOMMENDED OPERATING TEMP: -40°C TO 85°C AT 55 °C AMBIENT
HI-POT TEST FOR WINDING TO CORE ISOLATION. 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE @ 10KHZ = 20pF (TYP)
|z|@SRF=3.0 KILO-OHM
SRF=9.4 MHz
RATED CURRENT: 160 AMPS
DCR= 0.98 MILLI-OHM MAX., USING GW INSTEK GOM-801H OR EQUAL
L@DC BIAS: SEE TABLE ON RIGHT.
L= 14uH ± 15%., MEASURED AT 10 KHz, 0.25V, ZERO DC BIAS
SPECIFICATIONS:

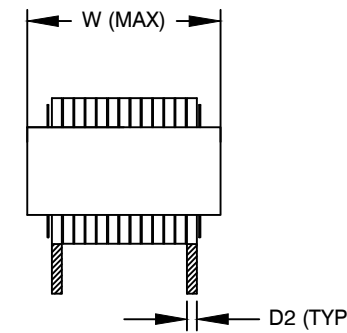
2 VANISH DOLPH or EQUAL
SILICON DOW CORNING OR EQUAL
NOMEX SPACERS FOR SIDE AND CENTER LEG OF CORES
OUTER WRAP: 3M GLASS OR EQUAL
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CORE: COMPACTED POWDERED CORE

1 INSULATION CLASS 200°C REQUIRED
MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

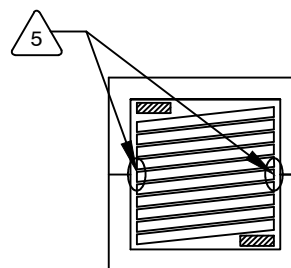
NOTES: UNLESS OTHERWISE SPECIFIED.READ FROM BOTTOM UP.



FRONT VIEW

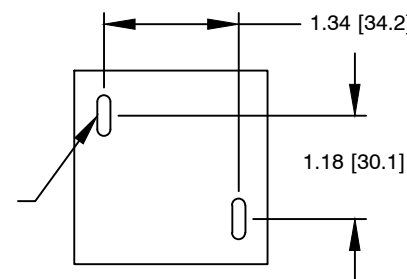


SIDE VIEW



BOTTOM VIEW

0.33x0.14
[8.5x3.5]



MOUNTING HOLES PATTERN

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

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

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST				
AUTOCAD		X		
SOLIDWORKS				
SIGN		DATE		
DRAWN RL		2/11/11		TITLE: High Current Helical Inductor 14 uH, 160 Amps, Horizontal SIZE DWG. NO. B ES55202-140M-160AH SCALE NOT_TO_SCALE REV A
CHECKED JLAU		2/11/11		
ENGR. JLAU		2/11/11		
APPR. JLAU		2/11/11		
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SHEET 1 OF 1			CAD-FILE:	