

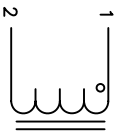
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REVISION HISTORY

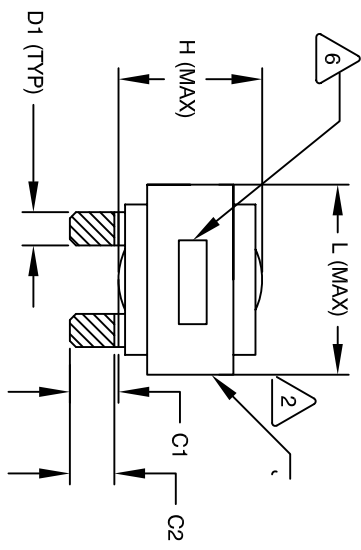
REV	ECN	DESCRIPTION	BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	RL	3/21/11	JCL	3/21/11

DIMENSIONAL TOLERANCE

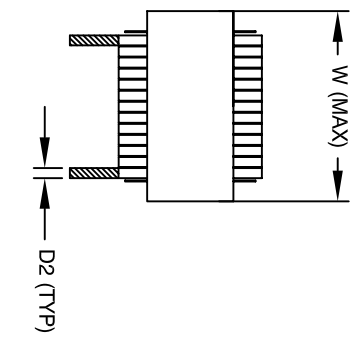
	mm	Inch
C1	14.23±1.50	0.56 ± 0.06
C2	12.12±1.00	0.48 ± 0.04
D1	7.20 (TYP)	0.29 (TYP)
D2	1.00 (TYP)	0.04 (TYP)
L	58.0 MAX	2.29 MAX
W	58.0 MAX	2.29 MAX
H	36.0 MAX	1.42 MAX



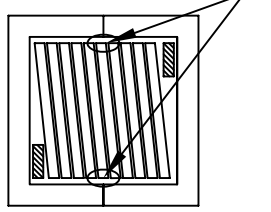
SCHEMATIC



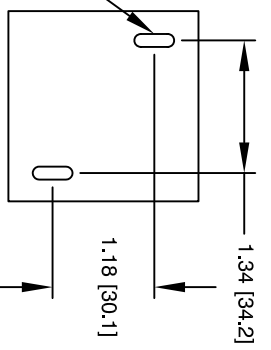
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



MOUNTING HOLES PATTERN

DC-BIAS	L
0A	127 uH
5A	123 uH
10A	117 uH
15A	109 uH
20A	99 uH
25A	87 uH
30A	85 uH
40A	73 uH

- 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: 430 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 = 18pF (TYP)
|z|@SRF = 6.8 KIL-OHM
SRF = 3.4 MHZ
RATED CURRENT: 45 AMPS
DCR = 6.6 MILLIOHM MAX, USING GW INSTEK GOM-801H OR EQUAL
L@DC BIAS: SEE TABLE ON RIGHT.
L = 130 uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS
SPECIFICATIONS:
- 3 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
- 2 INSULATION CLASS 200°C REQUIRED
MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
			PARTS LIST	
	AUTOCAD SOLIDWORKS			
	UNLESS OTHERWISE SPECIFIED			
	DRAWING AND TOLERANCE PER ANSI Y14.5M AND DIMENSIONS ARE IN INCHES AND [MILLIMETERS].			
	TOLERANCE INCHES: .XX±.010 .X±.020 TOLERANCE METERS: .XX±.254 .X±.51			
	ANGLE PROJECTION			
	DO NOT SCALE DRAWING			
	DATE	DATE		
	2/11/11	2/11/11		
	APPR. JLUU	2/11/11		
	SCALE	SIZE	DWG. NO.	REV
	NOT_TO_SCALE	B	ESS55244-131M-45AH	A
			High Current Helical Inductor	
			130 uH, 45 Amps, Horizontal	
			www.coilws.com	
			353 W. GROVE AVE	
			ORANGE, CA 92665	
			Coil Winding Specialist, Inc.	