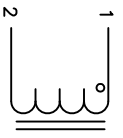


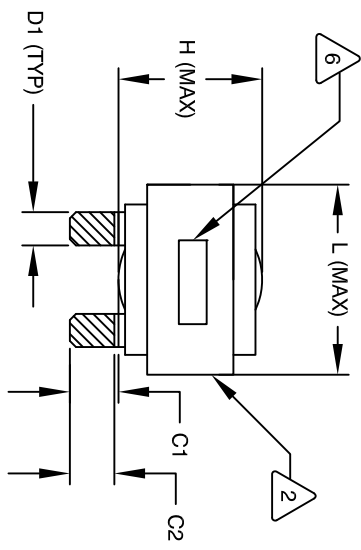
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REVISION HISTORY

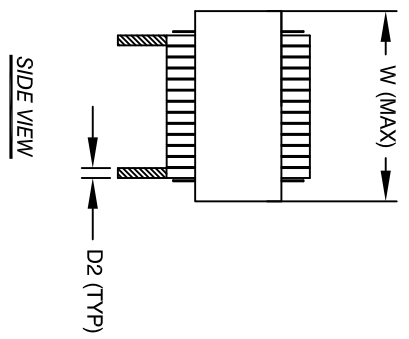
REV	ECN	DESCRIPTION	BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	RL	3/21/11	JCL	3/21/11



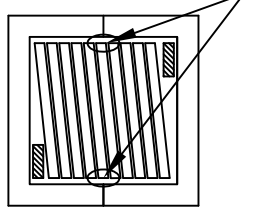
SCHEMATIC



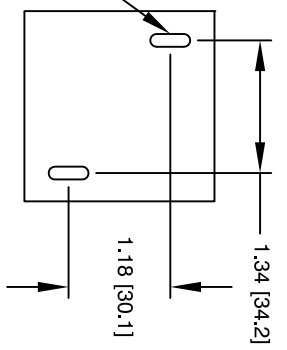
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



MOUNTING HOLES PATTERN

**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

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

- BUILT TO RoHS COMPLIANCE AND LEAD FREE.
- MARK PART NUMBER AND REVISION WHERE SHOWN
- VANISH PART AND CURE  
APPLY SILICON WHERE SHOWN
- WRAP TAPE AROUND CORES  
WITH CORES AND NOMEX SPACERS  
ASSEMBLE PRE FORMED FLAT HELICAL COIL  
CONSTRUCTION  
WEIGHT: 430 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 = 18pF (TYP)  
|z|@SRF = 6.8 KILLO-OHM (TYP)  
SRF = 3.4 MHz (TYP)  
RATED CURRENT: 45 AMPS  
DCR = 6.6 MILLI-OHM MAX.  
L@DC BIAS: SEE TABLE ON RIGHT.  
L = 130 uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS  
SPECIFICATIONS:

- 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

- 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.
			<b>PARTS LIST</b>	
			www.coilws.com sales@coilws.com	
			Coil Winding Specialist, Inc. 353 W. GROVE AVE ORANGE, CA 92665	
			<b>TITLE:</b> High Current Helical Inductor 130 uH, 45 Amps, Horizontal	
			<b>SIZE Dwg. NO.:</b> ESS55244-131M-45AH	
			<b>SCALE:</b> NOT TO SCALE	
			<b>DATE:</b> 2/11/11	
			<b>APPR.:</b> JLJU	
			<b>DATE:</b> 2/11/11	
			<b>SCALE:</b> NOT TO SCALE	
			<b>SHEET:</b> 1 OF 1	