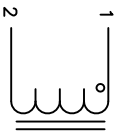


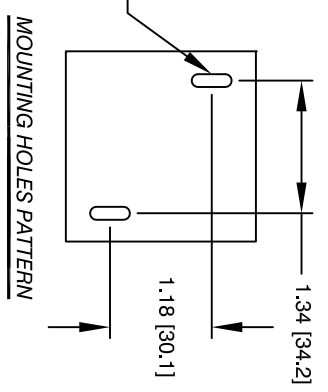
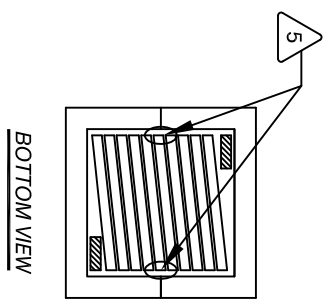
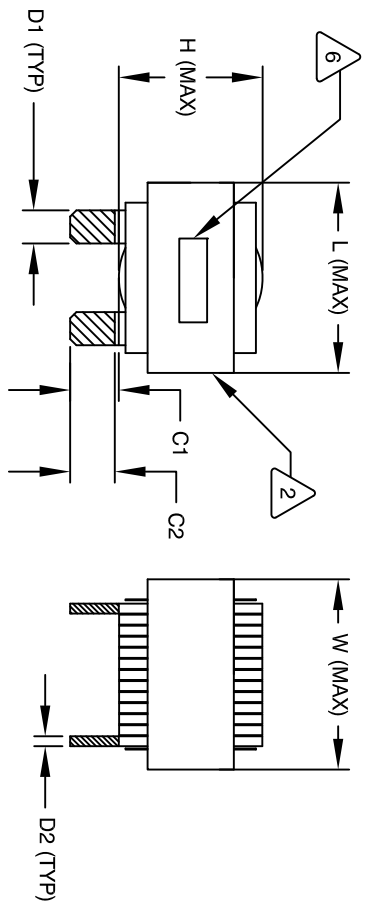
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REVISION HISTORY

REV	ECN	DESCRIPTION	BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	RL	2/13/11	JCL	2/13/11



SCHEMATIC



**DIMENSIONAL TOLERANCE**

	mm	Inch
C1	13.01 ± 1.50	0.51 ± 0.06
C2	11.27 ± 1.00	0.44 ± 0.04
D1	7.50 (TYP)	0.30 (TYP)
D2	1.50 (TYP)	0.06 (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**

DC-BIAS	L
0A	60.0 uH
5A	58.5 uH
10A	57.1 uH
15A	55.2 uH
20A	52.7 uH
25A	49.8 uH
30A	47.8 uH
40A	42.9 uH
50A	37.9 uH
60A	25.8 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: 438 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=6.0 KILO-OHM (TYP)  
SRF=4.7 MHZ (TYP)  
RATED CURRENT: 90 AMPS  
DCR = 3.0 MILLI-OHM MAX.  
L@DC BIAS: SEE TABLE ON RIGHT.  
L = 60uH ± 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>	
UNLESS OTHERWISE SPECIFIED				
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M AND DIMENSIONS ARE IN INCHES AND [MILLIMETERS].				
TOLERANCE INCHES: $\phi$ = ±0.30°				
TOLERANCE METRCS: $\phi$ = ±0.30°				
ANGLE PROJECTION				
DO NOT SCALE DRAWING				
AUTOCAD SOLIDWORKS SIGN		DATE		X
DRAWN	RL	2/11/11		
CHKD	JLJU	2/11/11		
ENGR	JLJU	2/11/11		
APPR	JLJU	2/11/11		
TITLE:		www.coilws.com		
High Current Helical Inductor		353 W. GROVE AVE		
60 uH, 90 Amps, Horizontal		ORANGE, CA 92865		
SIZE	DWG. NO.	Coil Winding Specialist, Inc.		
B	ESS55244-600M-90AH			
SCALE	NOT_TO_SCALE			
SHEET 1 OF 1				