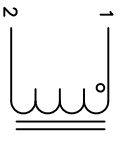


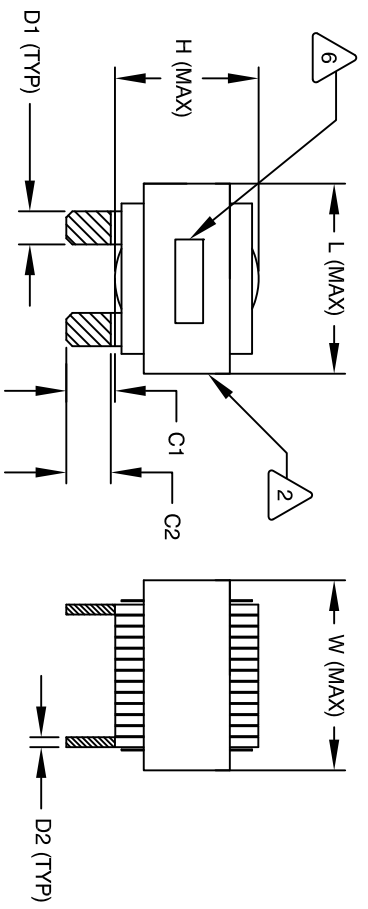
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REVISION HISTORY

REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
B		ELECT. AND MECHAN. UPDATE	JK	5/16/12	JL	5/16/12
B1		MECHANICAL UPDATE	JK	6/12/12	JL	6/12/12
C		REVISED DIMENSIONAL TOLERANCE	TN	06/06/18	JL	06/06/18
D		REVISED ELECTRICAL SPEC.	TN	11/19/18	JL	11/19/18

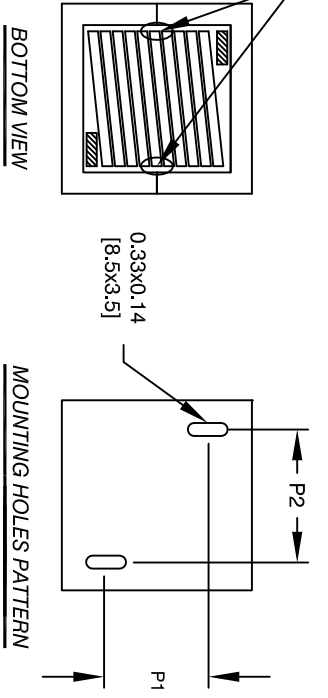


SCHEMATIC



DIMENSIONAL TOLERANCE

	mm	inch
C1	13±1.50	0.51 ±0.06
C2	12±1.50	0.47 ±0.06
D1	7.60 (TYP)	0.30 (TYP)
D2	2.60 (TYP)	0.10 (TYP)
L	57.0 MAX	2.25 MAX
W	57.0 MAX	2.25 MAX
H	37.0 MAX	1.46 MAX
P1	27.60 TYP	1.09 TYP
P2	34.40 TYP	1.35 TYP



MOUNTING HOLES PATTERN

- 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: 452 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 = 9pF TYP @ SRF
|Z| = 9.5 KILO-OHMS TYP @ SRF
SRF 9.8 MHz TYP
RATED CURRENT: 180 AMPS
DCR = 1.1 MILLIOHM MAX
L@DC BIAS: SEE TABLE ON RIGHT.
L = 30uH ± 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 SIGN	X		
	DATE			
DRAWN	RL	2/11/11		
CHKD	JLJU	2/11/11		
ENGR	JLJU	2/11/11		
APPR	JLJU	2/11/11		
TITLE:		High Current Helical Inductor		
SIZE:		30 uH, 180 Amps, Horizontal		
SCALE:		NOT TO SCALE		
DRAWING AND TOLERANCE PER ANSI Y14.5M AND DIMENSIONS ARE IN INCHES.		www.coilws.com sales@coilws.com 353 W. GROVE AVE ORANGE, CA 92665		
TOLERANCE INCHES: .XXX±.010 .XX±.020 .X±.030		Coil Winding Specialist, Inc.		
TOLERANCE METRICS: .XXX±.254 .XX±.51		353 W. GROVE AVE ORANGE, CA 92665		
ANGLE PROJECTION		REV D		
DO NOT SCALE DRAWING		REV D		