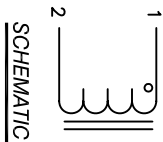
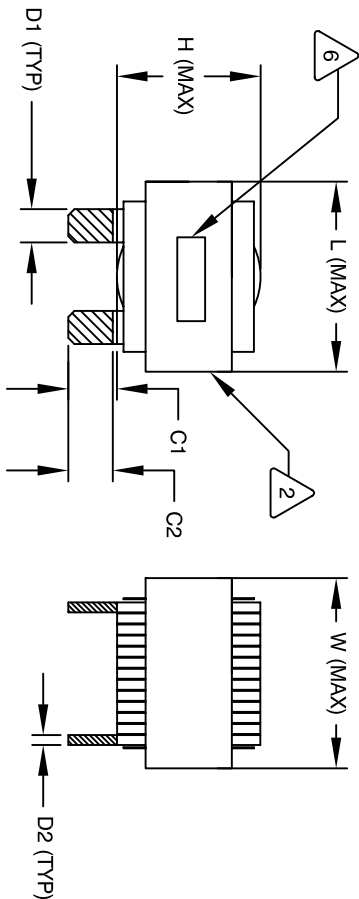


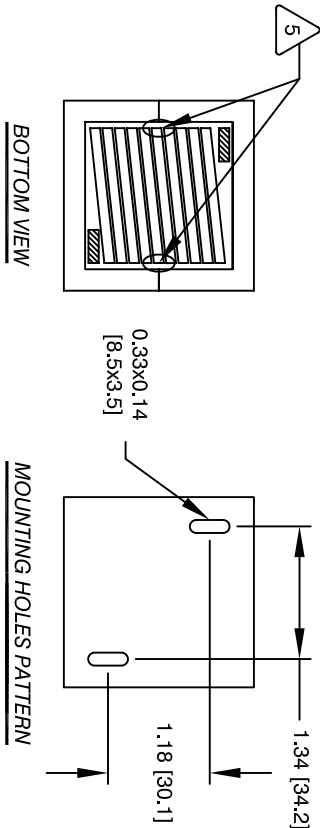
REVISION HISTORY			
REV	ECN	DESCRIPTION	SIGN & DATE
A		PRODUCTION RELEASE	BR DATE 2/13/11 CHK DATE 2/13/11 REL JCL



SCHEMATIC



DIMENSIONAL TOLERANCE	
	mm
C1	15.25±1.50 0.60 ±0.06
C2	12.25±1.00 0.48 ±0.04
D1	7.60 (TYP) 0.29 (TYP)
D2	2.50 (TYP) 0.10 (TYP)
L	57.0 MAX 2.25 MAX
W	57.0 MAX 2.25 MAX
H	35.0 MAX 1.38 MAX



BOTTOM VIEW

MOUNTING HOLES PATTERN

DC-BIAS	L
0A	28.1 uH
5A	26.9 uH
10A	26.3 uH
15A	25.4 uH
20A	24.4 uH
25A	23.3 uH
30A	23.3 uH
40A	21.9 uH
50A	20.6 uH
60A	18.7 uH
70A	18.3 uH
80A	16.1 uH
90A	15.0 uH
100A	13.4 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: 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 @ 10KHZ = 19pF (TYP)
|Z|@SRF=3.8 KLO-OHM
SRF=6.9 MHz
RATED CURRENT: 180 AMPS
DCR= 1.0 MILLIOHM MAX., USING GW INSTEK GOM-801H OR EQUAL
L@DC BIAS: SEE TABLE ON RIGHT.
L= 30uH ± 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.

QTY		CODE	MFG. P/N		DESCRIPTION	ITEM NO.
		IDENT				
PARTS LIST						
AUTOCAD		X		www.coilws.com 353 W GROVE AVE ORANGE, CA 92665 Coil Winding Specialist, Inc.		
SOLIDWORKS						
SIGN		DATE				
DRAWN		2/11/11				
RL		2/11/11		TITLE: High Current Helical Inductor 30 uH, 180 Amps, Horizontal		
DESIGNED		2/11/11				
ENGR.		2/11/11				
JLJU		2/11/11				
APPR.		2/11/11		SIZE Dwg. NO. B		
ES55246-300M-180AH		REV A				
UNLESS OTHERWISE SPECIFIED						
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M						
AND DIMENSIONS ARE IN INCHES						
AND [DIMETERS].						
TOLERANCE INCHES: .XXX=±.010 .XX=±.020						
TOLERANCE METRICS: .XXX=±.254 .XX=±.51						
ANGLE PROJECTION						
DO NOT SCALE DRAWING						