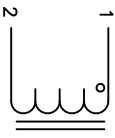
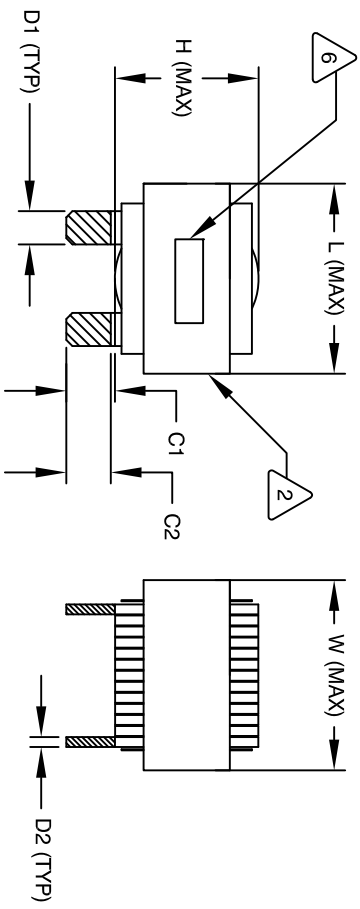


REVISION HISTORY

REV	ECN	DESCRIPTION	DATE
A		PRODUCTION RELEASE	2/13/11
B		ELECT. AND MECHAN. UPDATE	5/16/12
B1		MECHANICAL UPDATE	6/12/12
C		REVISED DIMENSION P1	6/12/18

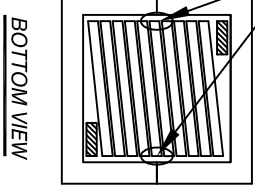


SCHEMATIC

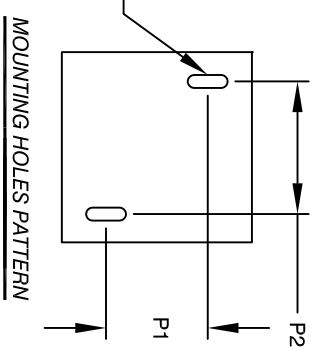


DIMENSIONAL TOLERANCE

	mm	Inch
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	36.0 MAX	1.42 MAX
P1	29.00 TYP	1.14 TYP
P2	34.20 TYP	1.34 TYP



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

- 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)
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 = 19PF (TYP)
|z|@SRF=3.8 KILO-OHM (TYP)
SRF=6.9 MHz (TYP)
RATED CURRENT: 180 AMPS
DCR = 1.0 MILLI-OHM 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
- 1 NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
			PARTS LIST	
			www.coilws.com	
			353 W. GROVE AVE	
			ORANGE, CA 92665	
			Coil Winding Specialist, Inc.	
			TITLE: High Current Helical Inductor	
			30 uH, 180 Amps, Horizontal	
			SIZE: DIM. NO. ES55246-300M-180AH	
			SCALE: NOT_TO_SCALE	
			SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].
TOLERANCE INCHES: $\phi = \pm 0.30'$
 $\text{XXX} = \pm 0.10$ $\text{XX} = \pm 0.20$
TOLERANCE METRICS: $\phi = \pm 0.30'$
 $\text{XXX} = \pm 0.254$ $\text{XX} = \pm 0.51$
ANGLE PROJECTION $\phi = \pm 0.30'$
DO NOT SCALE DRAWING