

SCHEMATIC

7 BUILT TO ROHS COMPLIANCE AND LEAD FREE.

6 MARK PART NUMBER AND REVISION WHERE SHOWN

5 VARNISH PART AND CURE  
APPLY SILICONE WHERE SHOWN

4 CONSTRUCTION  
WRAP TAPE AROUND CORES  
WITH CORES AND MYLAR SHEETS  
ASSEMBLE PRE FORMED FLAT RECTANGULAR HELICAL COIL

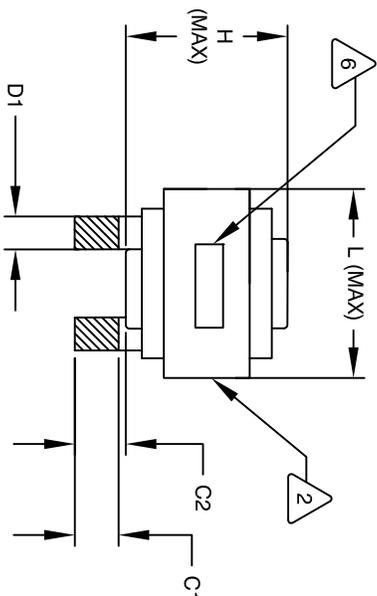
3 WEIGHT: 465 GRAMS TYP  
MAX INDUCTOR TEMP RATING: 200°C  
RECOMMENDED OPERATING TEMP: -40°C TO 85°C  
HI-POT TEST FOR WINDING TO CORE ISOLATION: 1000VDC @ 2mA, 1 MIN  
INTERWINDING CAPACITANCE = 114pF TYP @ SRF  
|Z| = 30 KILO-OHMS TYP @ SRF  
SRF = 3.05 MHz TYP  
RATED CURRENT: 40 AMPS WITH FORCED AIR FLOW  
DCR = 15 MILLI-OHMS MAX.  
DC BIAS: SEE TABLE ON THE RIGHT.  
L = 250 uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS  
SPECIFICATIONS @ 25°C:

2 VARNISH DOLPH OR EQUAL  
SILICONE DOW CORNING OR EQUAL  
MYLAR SHEETS FOR SIDES AND CENTER LEG OF CORES  
OUTER WRAP: 3M GLASS TAPE OR EQUAL  
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE  
CORE: COMPACTED POWDERED CORE

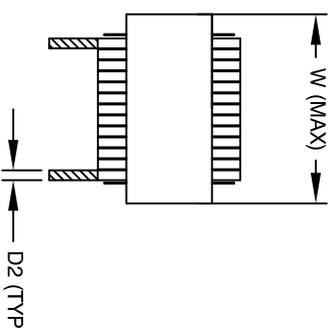
1 INSULATION CLASS 200°C REQUIRED  
MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.

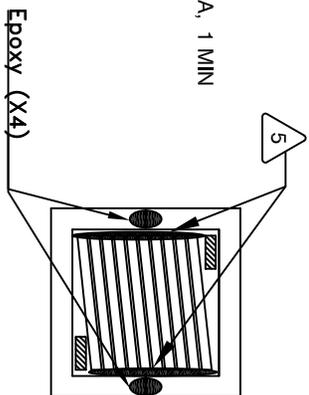
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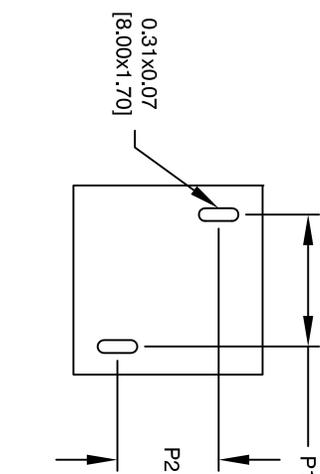
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



MOUNTING HOLES PATTERN

**DIMENSIONAL TOLERANCE**

	mm	inch
C1	12.00±1.00	0.47±0.04
C2	13.00±1.00	0.51±0.04
D1	7.00 (TYP)	0.30 (TYP)
D2	0.70 (TYP)	0.03 (TYP)
L	57.15 MAX	2.25 MAX
W	57.15 MAX	2.25 MAX
H	44.15 MAX	1.74 MAX
P1	36.30±1.00	1.43±0.04
P2	27.00±1.00	1.06±0.04

DC BIAS TABLE

DC-BIAS	L
0A	253 uH
5A	242 uH
10A	228 uH
15A	210 uH
20A	190 uH
25A	168 uH
30A	150 uH
35A	132 uH
40A	116 uH

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 Inductor,	
			Rectangular Helical Coil	
			250 uH, 40 Amps, Horizontal	
			<b>SIZE Dwg. NO.</b>	
			LCES30E4-251M-40AH	
			<b>SCALE</b>	
			NOT TO SCALE	
			<b>SHEET</b>	
			1 OF 1	

REV		ECON		DESCRIPTION		SIGN & DATE	
REV	DATE	CHK	DATE	BY	DATE	CHK	DATE
A					PRODUCTION RELEASE	TN	02/07/19

**REVISION HISTORY**