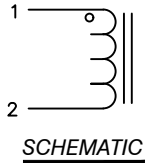


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DIMENSIONAL TOLERANCES INCHES [MM]											
C1	C2	D1	D2	L	W	H	I (X2)	J (X2)	K (X2)	P1	P2
0.67 [17.00] REF	0.55 [14.00] REF	0.51 [13.00] TYP	0.16 [4.00] TYP	3.25 [82.50] MAX	3.15 [80.00] MAX	3.15 [80.00] MAX	0.256 [6.50] TYP	0.26 [6.50] TYP	0.266 [6.756] MIN	1.98 [50.30] REF	1.59 [40.39] REF

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	TN	03/04/19	JL	03/04/19



DC BIAS TABLE

RMS BIAS	L @ 10KHz (REF)
0A	50uH
10A	48uH
20A	46uH
40A	42uH
60A	37uH
80A	32uH
100A	27uH

8 APPLICATION: AC INDUCTOR

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

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

4 CONSTRUCTION

WEIGHT: 1906 GRAMS TYP

CORE LOSS = 0.6 WATTS TYP @ 10KHz

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 = 30pF TYP @ SRF

|Z| = 8.2 KILO-OHMS TYP @ SRF

SRF = 6 MHz TYP

RATED CURRENT: 400 AMPS WITH FORCED AIR FLOW

DCR = 0.8 MILLI-OHMS MAX.

RMS BIAS: SEE TABLE ON THE RIGHT FOR AC INDUCTOR

L = 50 uH ± 10%, MEASURED AT 10 KHz, 0.25V, ZERO DC BIAS

3 SPECIFICATIONS @ 25°C:

VARNISH DOLPH or EQUAL

SILICONE DOW CORNING OR EQUAL

MYLAR SHEETS FOR SIDES, NOMEM PAPER FOR CENTER LEG OF CORES

OUTER WRAP: 3M GLASS OR EQUAL

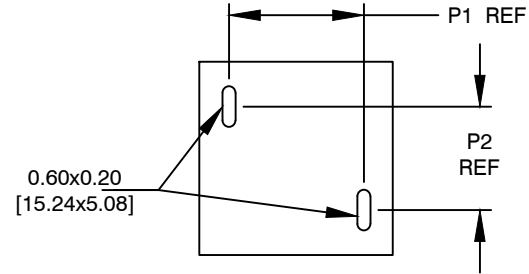
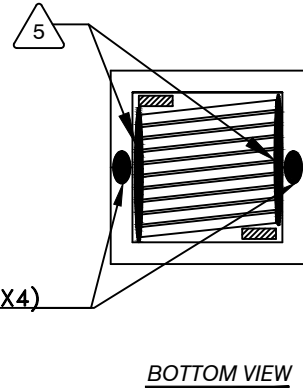
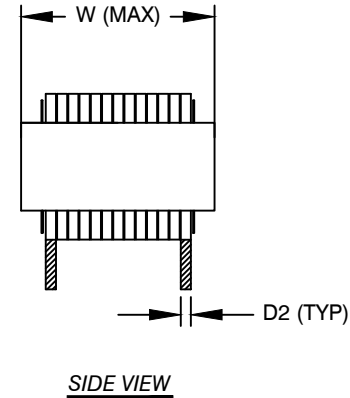
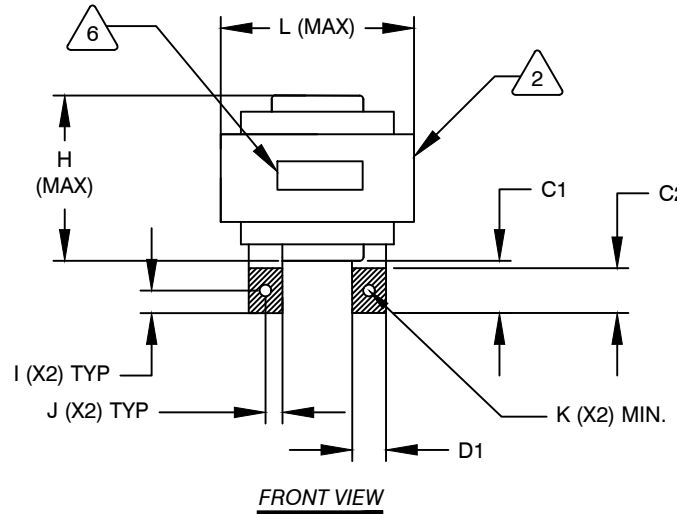
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE

CORE: COMPACTED POWDERED CORE

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

NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.

CAGE CODE: 5DME2



QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST				
AUTOCAD		X		
SOLIDWORKS				
SIGN		DATE	www.coilws.com sales@coilws.com	Coil Winding Specialist, Inc. 353 W GROVE AVE ORANGE, CA 92865
DRAWN	TN	03/04/19	TITLE: High Current Helical AC Inductor 50 uH, 400 Amps, Horizontal	
CHECKED	JM	03/04/19		
ENGR.	JL	03/04/19		
APPR.	JL	03/04/19		
SIZE	DWG. NO.	B LCES38A62-500M-400AH		REV A
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:	.XXX=±.010	.XX=±.020	◁=±0°30'
TOLERANCE METRICS:	.XXX=±.254	.XX=±.51	◁=±0°30'
ANGLE PROJECTION			
DO NOT SCALE DRAWING			