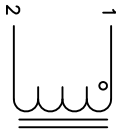


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SCHEMATIC

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

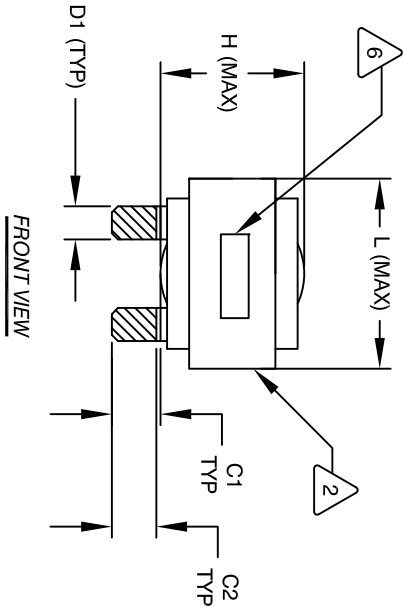
WEIGHT: 415 GRAM (TYP)
MAX INDUCTOR TEMP RATING: 200°C
RECOMMENDED OPERATING TEMP: -40°C TO 85°C
HI-POT TEST FOR WINDING TO CORE ISOLATION. 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE @ 10KHZ = 19pF (TYP)
|z|@SRF=5.5 Kilo-ohm (TYP)
SRF=3.8 MHz (TYP)
RATED CURRENT: 75 AMPS
DCR= 3.0 MILLI-OHM MAX.
L@DC BIAS: SEE TABLE ON RIGHT.
L= 80 uH ± 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

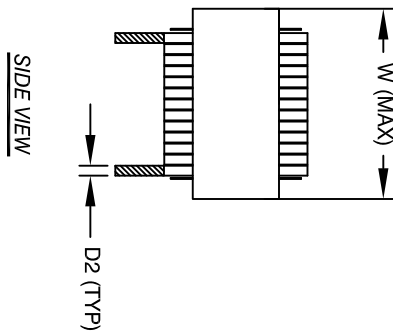
2 INSULATION CLASS 200°C REQUIRED
MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

THIS DIM. CAN VARY A LITTLE FROM PART TO PART.
"TYP" IN DIM. TOL. REFERS TO A NON-CRITICAL TYPICAL (AVERAGE) DIM. WITHOUT ANY TOLERANCE.

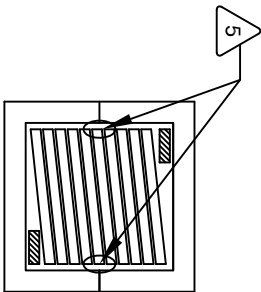
NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.
CAGE CODE: 5DME2



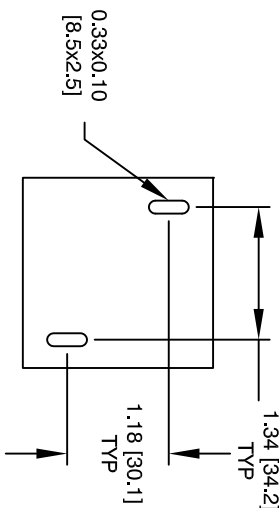
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



MOUNTING HOLES PATTERN

REVISION HISTORY					
REV	ECN	DESCRIPTION			
A		PRODUCTION RELEASE			
A1		DIMENSION UPDATE			
		SIGN & DATE			
BR	DATE	CHK	DATE		
RL	3/21/11	JCL	3/21/11		
IN	04/20/21	JL	04/20/21		

DIMENSIONAL TOLERANCE

	mm	inch
C1	14.23±1.50	0.56 ± 0.06
C2	12.12±1.00	0.48 ± 0.04
D1	7.50 (TYP)	0.30 (TYP)
D2	1.50 (TYP)	0.06 (TYP)
L	58.0 MAX	2.29 MAX
W	58.0 MAX	2.29 MAX
H	36.0 MAX	1.42 MAX

DC-BIAS	L
0A	86 uH
5A	83 uH
10A	78 uH
15A	72 uH
20A	65 uH
25A	59 uH
30A	56 uH
35A	53 uH
40A	49 uH
45A	45 uH
50A	41 uH
55A	38 uH

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST				
AUTOCAD		X		
SOLIDWORKS				
SIGN		DATE		

UNLESS OTHERWISE SPECIFIED				
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M AND [DIMETERS].				
DRAWN RL	2/11/11			
CHECKD JLAU	2/11/11			
ENGR. JLAU	2/11/11			
APPR. JLAU	2/11/11			

TITLE: High Current Helical Inductor
80 uH, 75 Amps, Horizontal

UNLESS OTHERWISE SPECIFIED				
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M AND [DIMETERS].				
TOLERANCE INCHES: .XXX=±.010 .XX=±.020 .X=±.030 .XX=±.254 .X=±.51				
ANGLE PROJECTION				
DO NOT SCALE DRAWING				