

SCHEMATIC

7 BUILT TO ROHS COMPLIANCE AND LEAD FREE.

6 MARK PART NUMBER AND REVISION WHERE SHOWN

5 VARNISH PART AND CURE
APPLY SILICON WHERE SHOWN

4 CONSTRUCTION
WRAP TAPE AROUND CORES
WITH CORES AND NOMEX SPACERS
ASSEMBLE PRE FORMED FLAT HELICAL COIL

WEIGHT: 445 GRAM (TYP)
MAX INDUCTOR TEMP RATING: 200°C
RECOMMENDED OPERATING TEMP: -40°C TO 85°C
HPOT TEST FOR WINDING TO CORE ISOLATION: 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE @ 10KHZ = 17pF (TYP)
|Z|@SRF=6.6 KIL-OHM (TYP)
SRF=3.7 MHZ (TYP)
RATED CURRENT: 60 AMPS
DCR= 4.0 MILLI-OHM MAX.
L@DC BIAS: SEE TABLE ON RIGHT.
L= 110uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS
SPECIFICATIONS:

3 VARNISH 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

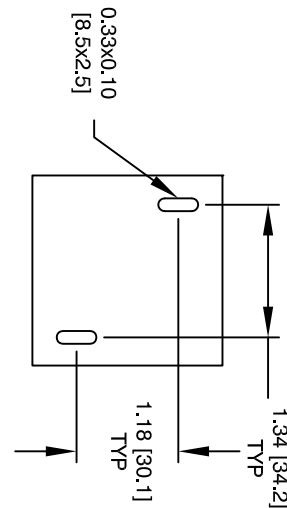
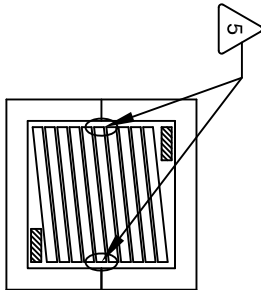
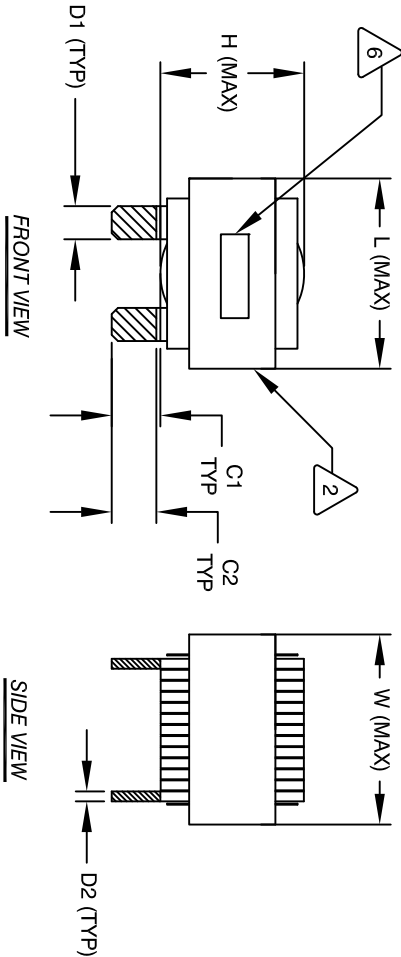
1 INSULATION CLASS 200°C REQUIRED
MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

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



REVISION HISTORY			
REV	ECN	DESCRIPTION	SIGN & DATE
A		PRODUCTION RELEASE	BR DATE 2/13/11 JCL 2/13/11
B		ELECTRICAL CHANGE	BR 9/20/11 JCL 9/20/11
B1		DIMENSION UPDATE	TN 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	1.35 (TYP)	0.05 (TYP)
L	58 MAX	2.29 MAX
W	58 MAX	2.29 MAX
H	36 MAX	1.42 MAX

DC-BIAS	L
0A	106 uH
5A	100 uH
10A	94 uH
15A	86 uH
20A	76 uH
25A	67 uH
30A	65 uH
35A	60 uH
40A	55 uH
45A	51 uH
50A	46 uH

BOTTOM VIEW

MOUNTING HOLES PATTERN

FRONT VIEW

SIDE VIEW

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST				
AUTOCAD SOLIDWORKS		X		
SIGN		DATE		
DRAWN RL		2/11/11		
CHECKD JLAU		2/11/11		
ENGR JLAU		2/11/11		
APPR JLAU		2/11/11		
DO NOT SCALE DRAWING		SCALE		
		B		
		NOT_TO_SCALE		
		SHEET		
		1		
		OF		
		1		

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High Current Helical Inductor
110 uH, 60 Amps, Horizontal

ES55246-111M-60AH