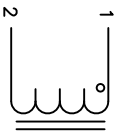


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REVISION HISTORY

REV	ECN	DESCRIPTION	BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	GN	8/23/12	JLU	8/23/12
B		REVISED DIMENSIONAL TOLERANCE	JL	08/06/18	JL	08/06/18
C		REVISED ELECTRICAL SPEC	TN	01/28/19	JL	01/28/19



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:

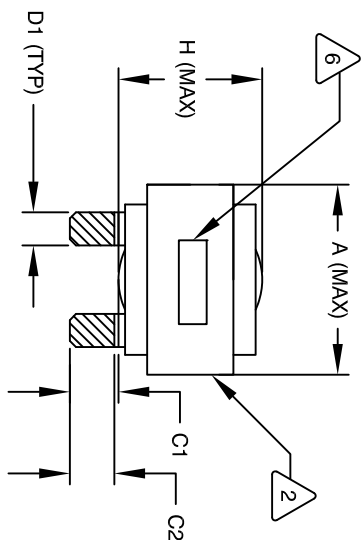
3 WEIGHT: 436 GRAM (TYP)  
MAX INDUCTOR TEMP RATING: 200°C  
RECOMMENDED OPERATING TEMP: -40°C TO 85°C  
HI-POT TEST FOR WINDING TO CORE ISOLATION, 1000VDC @ 2mA, 1 MIN  
INTERWINDING CAPACITANCE = 13.9pF TYP @ SRF  
|Z| = 9.4 KILO-OHMS TYP @ SRF  
SRF = 11.4 MHZ TYPICAL  
RATED CURRENT: 200 AMPS  
DCR = 1.1 MILLIOHMS MAX.  
INDUCTOR DC BIAS: SEE TABLE ON RIGHT  
L = 14uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS  
SPECIFICATIONS:

2 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

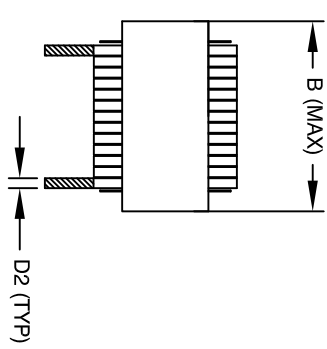
1 INSULATION CLASS 200°C REQUIRED  
MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.

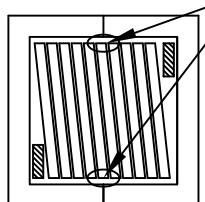
CAGE CODE: 5DME2



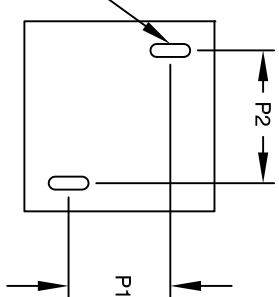
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



MOUNTING HOLES PATTERN

DIMENSIONAL TOLERANCE

	mm	Inch
C1	13±1.50	0.51±0.06
C2	12±1.50	0.47±0.06
D1	7.60 (TYP)	0.30 (TYP)
D2	2.60 (TYP)	0.10 (TYP)
A	57.0 MAX	2.24 MAX
B	57.0 MAX	2.24 MAX
H	37.0 MAX	1.46 MAX
P1	27.60 TYP	1.09 TYP
P2	34.40 TYP	1.35 TYP

DC-BIAS

I	L
0A	14 uH
5A	14 uH
10A	14 uH
15A	14 uH
20A	13.8 uH
25A	13.7 uH
30A	13.2 uH
40A	12.7 uH
50A	12.3 uH
60A	11.9 uH
80A	10.9 uH
100A	10.3 uH
120A	10.1 uH
160A	10.0 uH
200A	9.9 uH

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
			<b>PARTS LIST</b>	
	AUTOCAD SOLIDWORKS SIGN	X		
	DATE	DATE		
	8/23/12	8/23/12		
	GN	GN		
	8/23/12	8/23/12		
	JLU	JLU		
	8/23/12	8/23/12		
	JLU	JLU		
	8/23/12	8/23/12		
	APPR.	APPR.		
	JLU	JLU		
	8/23/12	8/23/12		
	SCALE	SCALE		
	NOT_TO_SCALE	NOT_TO_SCALE		
	SHEET	SHEET		
	1	1		

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TITLE:  
High Current Helical Inductor  
14 uH, 200 Amps, Horizontal

SIZE Dwg. No.  
ES55242-140M-200AH