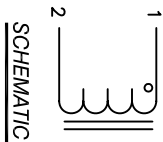
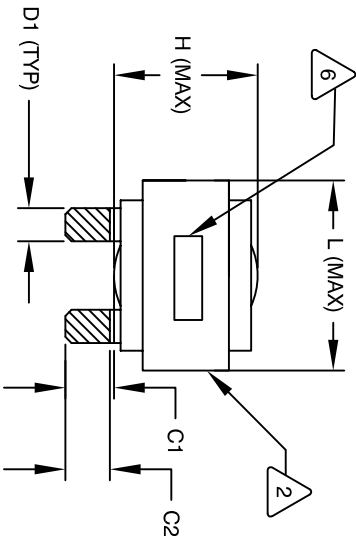


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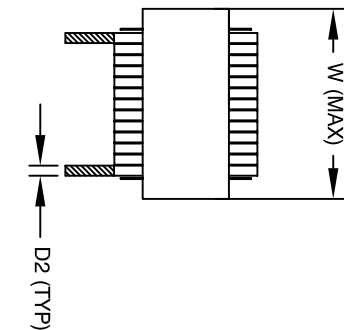
REVISION HISTORY			
REV	ECN	DESCRIPTION	SIGN & DATE
A		PRODUCTION RELEASE	BR DATE 2/13/11 CHK DATE 2/13/11 RL



SCHEMATIC



FRONT VIEW



SIDE VIEW

DIMENSIONAL TOLERANCE			
	mm	inch	
C1	13.99 ± 1.50	0.55 ± 0.06	
C2	12.60 ± 1.00	0.50 ± 0.04	
D1	7.75 (TYP)	0.31 (TYP)	
D2	2.50 (TYP)	0.10 (TYP)	
L	57.0 MAX	2.25 MAX	
W	58.0 MAX	2.29 MAX	
H	36.0 MAX	1.42 MAX	

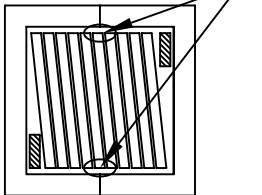
7 BUILT TO RoHS COMPLIANCE AND LEAD FREE.

6 MARK PART NUMBER AND REVISION WHERE SHOWN

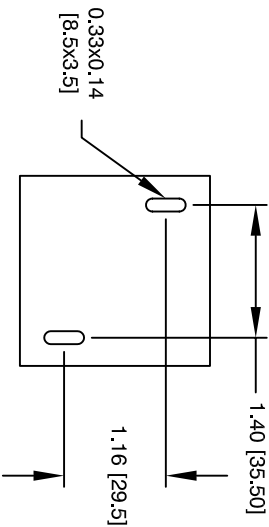
5 VANISH PART AND CURE
APPLY SILICON WHERE SHOWN

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

WEIGHT: 412 GRAM (TYP)
RECOMMENDED OPERATING TEMP: -40°C TO 85°C AT 55 °C AMBIENT
HI-POT TEST FOR WINDING TO CORE ISOLATION. 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE @ 10KHZ = 19pF (TYP)
|Z|@SRF=3.1 KILO-OHM
SRF=8.4 MHZ
RATED CURRENT: 160 AMPS
DCR= 1.0 MILLIOHM MAX., USING GW INSTEK GOM-801H OR EQUAL
L@DC BIAS: SEE TABLE ON RIGHT.
L = 20uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS



BOTTOM VIEW



MOUNTING HOLES PATTERN

DC-BIAS	L
0A	19.1 uH
5A	18.2 uH
10A	17.9 uH
15A	17.6 uH
20A	17.2 uH
25A	16.7 uH
30A	16.4 uH
40A	15.7 uH
50A	14.8 uH
60A	13.9 uH
70A	12.9 uH
80A	12.2 uH
90A	11.5 uH
100A	10.6 uH

3 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.

QTY	CODE	IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST					
AUTOCAD SOLIDWORKS SIGN			X		
DRAWN RL			2/11/11		
CHECKD JLJU			2/11/11		
ENGR. JLJU			2/11/11		
APPR. JLJU			2/11/11		
UNLESS OTHERWISE SPECIFIED				TITLE: High Current Helical Inductor	
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M				20 uH, 160 Amps, Horizontal	
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].				SIZE Dwg. NO. ES55204-200M-160AH	
TOLERANCE INCHES: .XXX=±.010 .XX=±.020				SCALE NOT TO SCALE	
TOLERANCE METRICS: .XXX=±.254 .XX=±.51				SHEET 1 OF 1	
ANGLE PROJECTION				REV A	
DO NOT SCALE DRAWING					