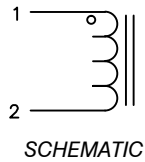


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REVISION HISTORY

REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	RCL	6/22/11	JCL	3/21/11



DIMENSIONAL TOLERANCE

	mm	inch
C1	13.37 ± 1.50	0.53 ± 0.06
C2	12.31 ± 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	1.41 MAX

8 APPLICATION: OUTPUT CHOKE, HIGH DC-BIAS INDUCTOR, INPUT FILTER

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

WEIGHT: 503.3 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 = 19.06pF (TYP)  
|z|@SRF=4.4 KILO-OHM  
SRF=4.0 MHZ  
RATED CURRENT: 85 AMPS  
DCR= 3.0 MILLI-OHM MAX., USING GW INSTEK GOM-801H OR EQUAL  
L@DC BIAS: SEE TABLE ON RIGHT.  
L= 80 uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS

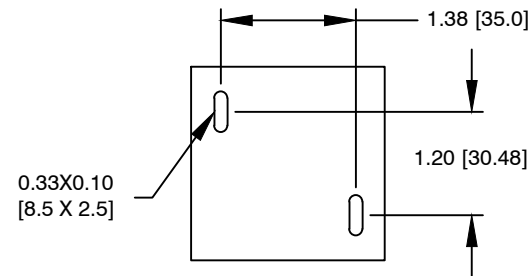
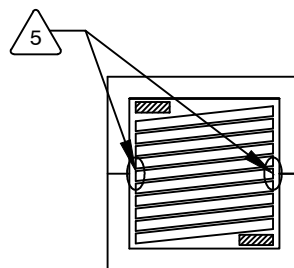
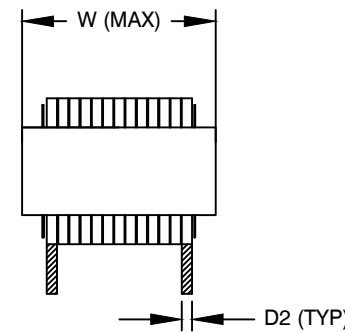
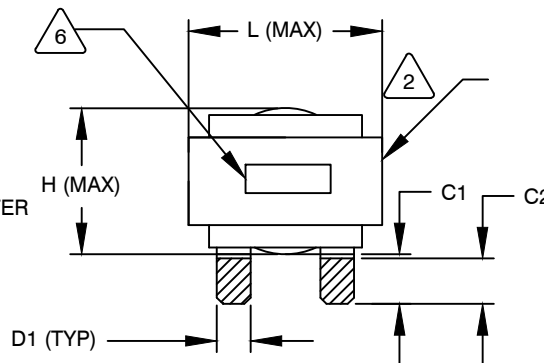
3 SPECIFICATIONS:

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.

CAGE CODE: 5DME2



DC-BIAS	L
0A	86.3uH
5A	86.4uH
10A	85.5uH
15A	84.0uH
20A	82.1uH
25A	79.6uH
30A	74uH
40A	71uH
50A	63uH
60A	59uH
70A	49uH
85A	43uH

UNLESS OTHERWISE SPECIFIED  
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M  
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].  
TOLERANCE INCHES:  
.XXX±.010 .XX±.020 <math>\angle = \pm 0'30''</math>  
TOLERANCE METRICS:  
.XXX±.254 .XX±.51 <math>\angle = \pm 0'30''</math>  
ANGLE PROJECTION  
DO NOT SCALE DRAWING

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
<b>PARTS LIST</b>				
AUTOCAD		X		
SOLIDWORKS				
SIGN		DATE		
DRAWN RL		2/11/11		TITLE: High Current Helical Inductor 80 uH, 85 Amps, Horizontal www.coilws.com sales@coilws.com Coil Winding Specialist, Inc. 353 W GROVE AVE ORANGE, CA 92865
CHECKED JLAU		2/11/11		
ENGR. JLAU		2/11/11		
APPR. JLAU		2/11/11		
SIZE	DWG. NO.	REV		
B	EK55246-800M-85AH	A		
SCALE		SHEET		1 OF 1
NOT_TO_SCALE				