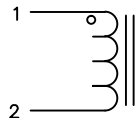


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REVISION HISTORY

REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	RJL	2/13/11	JCL	2/13/11
			RCL	6/24/11		



SCHEMATIC

NOISE FILTERS

8 APPLICATION: ENERGY STORAGE FILTER, SWINGING CHOKES

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

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

4 WEIGHT: 444.69 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 = 16.46pF (TYP)  
|z|@SRF=6.3 KILO-OHM  
SRF=2.5 MHZ  
RATED CURRENT: 40 AMPS  
DCR= 9.7 MILLI-OHM MAX., USING GW INSTEK GOM-801H OR EQUAL  
L@DC BIAS: SEE TABLE ON RIGHT.  
L= 220uH, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS

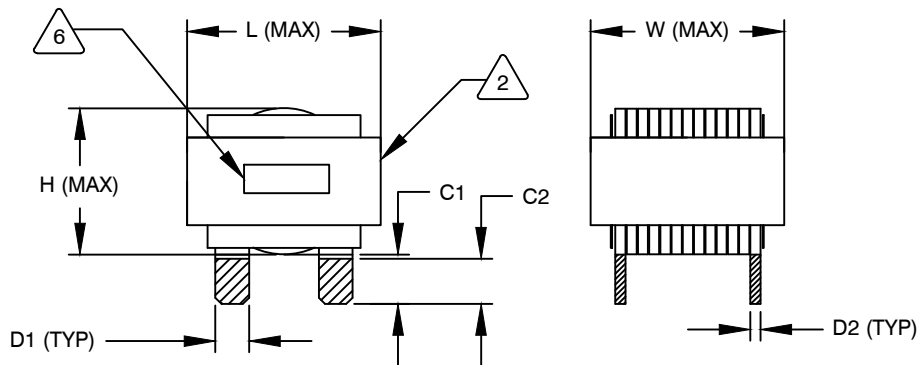
3 SPECIFICATIONS:

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  
1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

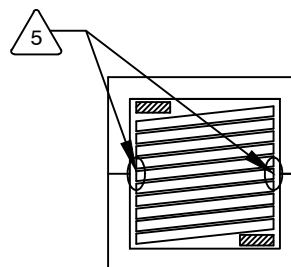
NOTES: UNLESS OTHERWISE SPECIFIED. READ FROM BOTTOM UP.

CAGE NO: 5DME2

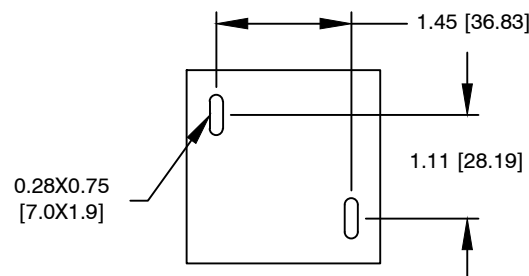


FRONT VIEW

SIDE VIEW



BOTTOM VIEW



MOUNTING HOLES PATTERN

DIMENSIONAL TOLERANCE

	mm	inch
C1	13.46±1.50	0.53 ± 0.06
C2	11.30±1.00	0.44 ± 0.04
D1	6.0 (TYP)	0.23 (TYP)
D2	0.9 (TYP)	0.04 (TYP)
L	58.0 MAX	2.29 MAX
W	58.0 MAX	2.29 MAX
H	34.0 MAX	1.34 MAX

DC-BIAS	L
0A	247.1 uH
5A	226.5 uH
10A	197.7 uH
15A	163.4 uH
20A	131.1 uH
25A	104.6 uH

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^{\circ}30'</math>  
TOLERANCE METRICS:  
.XXX±.254 .XX±.51 <math>\angle = \pm 0^{\circ}30'</math>  
ANGLE PROJECTION  
DO NOT SCALE DRAWING

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST				
AUTOCAD		X		
SOLIDWORKS				
SIGN		DATE	www.coilws.com sales@coilws.com Coil Winding Specialist, Inc. 353 W GROVE AVE ORANGE, CA 92865	
DRAWN	RL	2/11/11		
CHECKED	JLAU	2/11/11		
ENGR.	JLAU	2/11/11		
APPR.	JLAU	2/11/11		
TITLE:			High Current Helical Inductor 220 uH, 40 Amps, Horizontal	
SIZE	DWG. NO.	REV		
B	ES55246-221M-40AH	A		
SCALE	NOT_TO_SCALE	SHEET 1 OF 1		