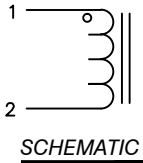


The information contained in this drawing is the sole property of Coil Winding Specialist, Inc. Any reproduction in part or whole without written permission of Coil Winding Specialist, Inc. is prohibited.



- 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

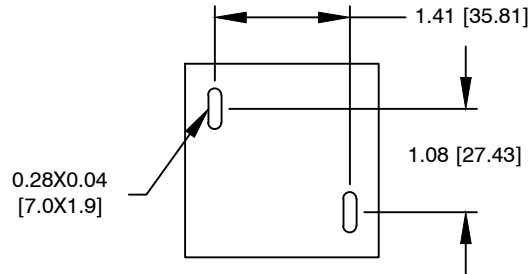
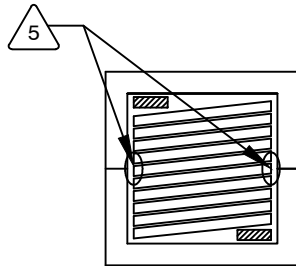
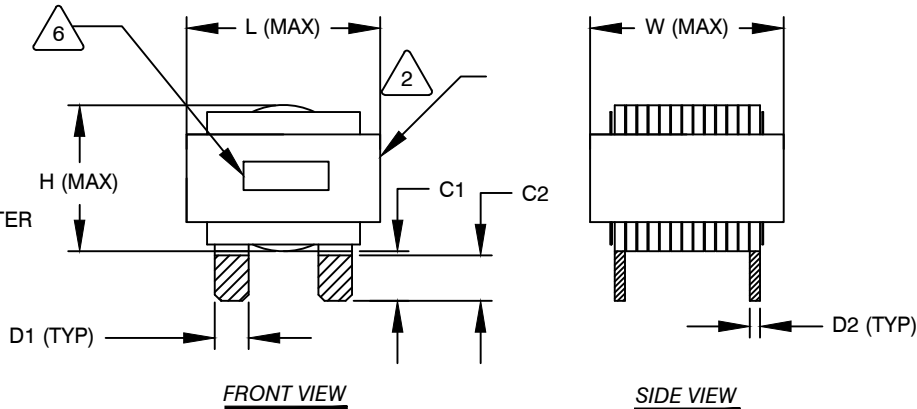
- 4 CONSTRUCTION
WRAP TAPE AROUND CORES
WITH CORES AND NOMEX SPACERS
ASSEMBLE PRE FORMED FLAT HELICAL COIL
WEIGHT: 467.39 GRAM (Typ)
RECOMMENDED OPERATING TEMP: -40°C TO 85°C AT 55 °C AMBIENT
HI-POT TEST FOR WINDING TO CORE ISOLATION. 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE @ 10KHZ = 18.39 pF (TYP)
|z|@SRF=5.5 KILO-OHM
SRF=2.5 MHz
RATED CURRENT: 50 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:

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



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	12.20±1.50	0.48 ± 0.06
C2	11.10±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	221.5uH
5A	222.9uH
10A	218.9uH
15A	211.1uH
20A	201.2uH
25A	187.5uH
30A	171.0uH
35A	157.0uH
40A	139.0uH
45A	126.0uH
50A	112.0uH

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST				
AUTOCAD		X	www.coilws.com sales@coilws.com Coil Winding Specialist, Inc. 353 W GROVE AVE ORANGE, CA 92865	
SOLIDWORKS				
SIGN		DATE		
DATE				
DRAWN	RL	2/11/11	TITLE: High Current Helical Inductor 220 uH, 50 Amps, Horizontal	
CHECKED	JLAU	2/11/11		
ENGR.	JLAU	2/11/11		
APPR.	JLAU	2/11/11		
SIZE	DWG. NO.	B EK55246-221M-50AH		REV A
SCALE	NOT_TO_SCALE	SHEET 1 OF 1		

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