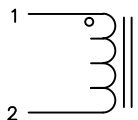


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SCHEMATIC

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

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

WEIGHT: 438 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 = 18pF (TYP)
|z|@SRF=6.4 KILO-OHM
SRF=3.0 MHZ
RATED CURRENT: 90 AMPS
DCR= 5.94 MILLI-OHM MAX., USING GW INSTEK GOM-801H OR EQUAL
L@DC BIAS: SEE TABLE ON RIGHT.
L= 170uH ± 15%, MEASURED AT 10 KHz, 0.25V, ZERO DC BIAS

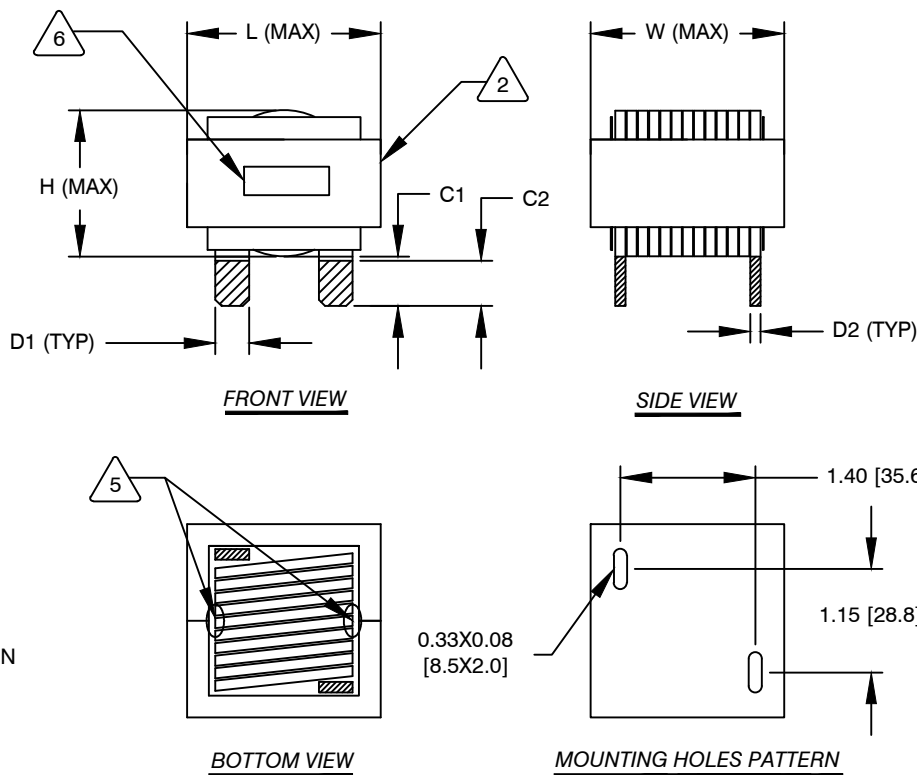
3 SPECIFICATIONS:

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 NO: 5DME2



REVISION HISTORY

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

DIMENSIONAL TOLERANCE

	mm	inch
C1	13.71±1.50	0.54 ± 0.06
C2	11.62±1.00	0.46 ± 0.04
D1	7.50 (TYP)	0.30 (TYP)
D2	1.0 (TYP)	0.04 (TYP)
L	58.0 MAX	2.29 MAX
W	58.0 MAX	2.29 MAX
H	36.0 MAX	1.42 MAX

DC-BIAS	L
0A	166.0 uH
5A	155.1 uH
10A	141.9 uH
15A	122.6 uH
20A	103.7 uH
25A	86.3 uH
30A	73.8 uH

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST				
AUTOCAD		X	www.coilws.com sales@coilws.com	
SOLIDWORKS				
SIGN		DATE	Coil Winding Specialist, Inc. 353 W GROVE AVE ORANGE, CA 92865	
DRAWN	RL	2/11/11		
CHECKED	JLAU	2/11/11	High Current Helical Inductor 170 uH, 45 Amps, Horizontal	
ENGR.	JLAU	2/11/11		
APPR.	JLAU	2/11/11	SIZE DWG. NO.	REV
			B ES55246-171M-45AH	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	