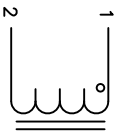


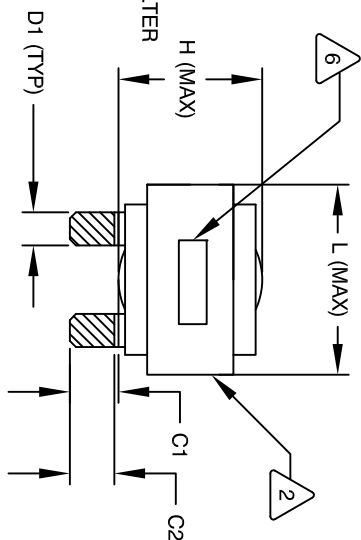
REVISION HISTORY

REV	ECN	DESCRIPTION	BR	DATE	CHK	DATE
A		PRODUCTION RELEASE	JCL	6/22/11	JCL	3/21/11
B		ELECTRICAL SPEC. CHANGE	JK	9/26/12	JLUU	9/26/12
B1		UPDATE SPEC.	TN	9/29/17	JLUU	9/29/17

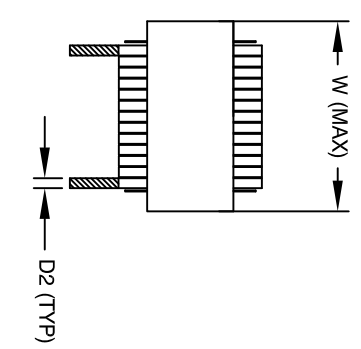


SCHEMATIC

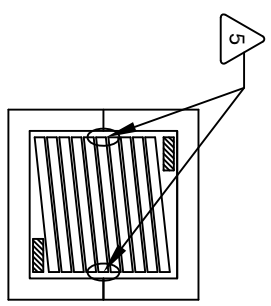
- 1 APPLICATION: OUTPUT CHOKE, HIGH DC-BIAS INDUCTOR, INPUT FILTER
- 2 BUILT TO ROHS COMPLIANCE AND LEAD FREE.
- 3 MARK PART NUMBER AND REVISION WHERE SHOWN
- 4 VANISH PART AND CURE
APPLY SILICON WHERE SHOWN
WRAP TAPE AROUND CORES
WITH CORES AND NOMEX SPACERS
ASSEMBLE PRE FORMED FLAT HELICAL COIL
CONSTRUCTION
- 5 WEIGHT: 480.0 GRAM (TYP)
MAX INDUCTOR TEMP RATING: 200°C
RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 85°C
HI-POT TEST FOR WINDING TO CORE ISOLATION. 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE @ 10KHZ = 17.38 pF (TYP)
|Z|@SRF=5.5 KILO-OHM (TYP)
SRF=2.5 MHZ (TYP)
RATED CURRENT: 50 AMPS
DCR = 10.0 MILLIOHM MAX.
L@DC BIAS: SEE TABLE ON RIGHT.
L = 220uH NOM. ±15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS
SPECIFICATIONS:
- 6 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



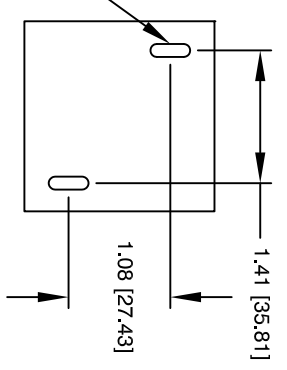
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



MOUNTING HOLES PATTERN

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	182.0uH
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	

UNLESS OTHERWISE SPECIFIED	DRAWN	DATE	TITLE
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M AND DIMENSIONS ARE IN INCHES AND [DIMETERS].	RL	2/11/11	High Current Helical Inductor
TOLERANCE INCHES: .XX=±.010 .X=±.020 .XXX=±.254 .XX=±.51	ENGR	2/11/11	220 uH, 50 Amps, Horizontal
ANGLE PROJECTION	APPR	2/11/11	

AUTOCAD SOLIDWORKS	SIGN	DATE	SCALE	DRG. NO.	REV
			B	EK55246-221M-50AH	B1

www.coilws.com
353 W. GROVE AVE
ORANGE, CA 92665

INSULATION CLASS 200°C REQUIRED MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

CAGE CODE: 5DME2

