

SCHEMATIC

7 BUILT TO ROHS COMPLIANCE AND LEAD FREE.

6 MARK PART NUMBER AND REVISION WHERE SHOWN

5 VARNISH PART AND CURE
APPLY SILICONE WHERE SHOWN

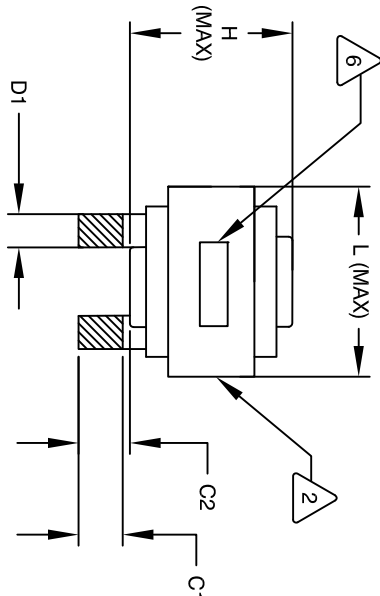
4 CONSTRUCTION
WRAP TAPE AROUND CORES
WITH CORES AND MYLAR SHEETS
ASSEMBLE PRE FORMED FLAT RECTANGULAR HELICAL COIL

WEIGHT: 465 GRAM (TYP)
MAX INDUCTOR TEMP RATING: 200°C
RECOMMENDED OPERATING TEMP: -40°C TO 85°C
HI-POT TEST FOR WINDING TO CORE ISOLATION. 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE = 114pF TYP @ SRF
|Z| = 30 KILO-OHMS (TYP) @ SRF
SRF = 3.05 MHz (TYP)
RATED CURRENT: 40 AMPS WITH FORCED AIR FLOW
DCR = 15 MILLI-OHMS MAX
DC BIAS: SEE TABLE ON THE RIGHT
L = 250 uH ± 15%, MEASURED AT 10 KHz, 0.25V, ZERO DC BIAS
SPECIFICATIONS @ 25°C:

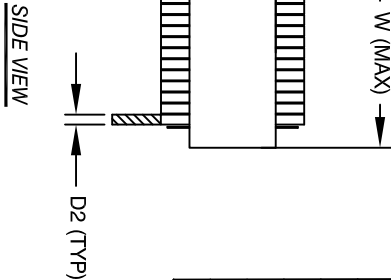
3 VARNISH DOLPH OR EQUAL
SILICONE DOW CORNING OR EQUAL
MYLAR SHEETS FOR SIDES AND CENTER LEG OF CORES
OUTER WRAP: 3M GLASS OR EQUAL
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CORE: COMPACTED POWDERED CORE

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

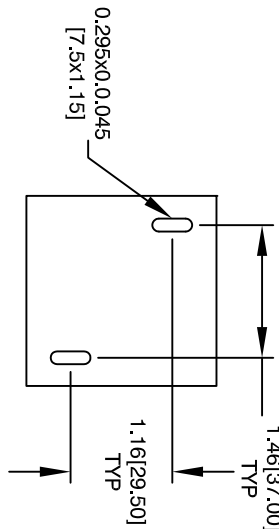
ANY TOLERANCE. THIS DIM. CAN VARY A LITTLE FROM PART TO PART.
"TYP" IN DIM. TOL. REFERS TO A NON-CRITICAL TYPICAL (AVERAGE) DIM. WITHOUT
NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.
CAGE CODE: 5DME2



FRONT VIEW



SIDE VIEW



MOUNTING HOLES PATTERN

DIMENSIONAL TOLERANCE			
	mm	Inch	
C1	12.50±0.50	0.49±0.02	
C2	14.5±0.50	0.57±0.02	
D1	7.00 (TYP)	0.28 (TYP)	
D2	0.70 (TYP)	0.03 (TYP)	
L	56.0 MAX	2.20 MAX	
W	56.3 MAX	2.22 MAX	
H	44.15 MAX	1.74 MAX	

REVISION HISTORY			
REV	ECN	DESCRIPTION	
A		PRODUCTION RELEASE	
A1		UPDATED MOUNTING HOLES	
		BY	DATE
		TN	02/07/19
		04/13/21	04/13/21

BOTTOM VIEW

QTY		CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST					
AUTOCAD		X			
SOLIDWORKS					
SIGN		DATE			
DRAWN		TN		11/30/18	
CHECKED		JL		11/30/18	
ENGR.		JL		11/30/18	
APPR.		JL		11/30/18	
SCALE		NOT_TO_SCALE		SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED

DIMENSIONING AND TOLERANCE PER ANSI Y14.5M AND [DIMETERS].

TOLERANCE INCHES: .XXX=±.010 .XX=±.020 TOLERANCE METRICS: .XXX=±.254 .XX=±.51

ANGLE PROJECTION

DO NOT SCALE DRAWING

TITLE:

High Current Rectangular Helical Inductor

250 uH, 400 Amps, Horizontal

www.coilws.com

353 W GROVE AVE

ORANGE, CA 92665

Coil Winding Specialist, Inc.

353 W. GROVE AVE

ORANGE, CA 92665

DC-BIAS

L

0A

253 uH

5A

242 uH

10A

228 uH

15A

210 uH

20A

190 uH

25A

168 uH

30A

150 uH

35A

132 uH

40A

116 uH