

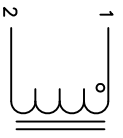
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REVISION HISTORY

REV	ECN	DESCRIPTION	DATE
A		PRODUCTION RELEASE	11/28/18

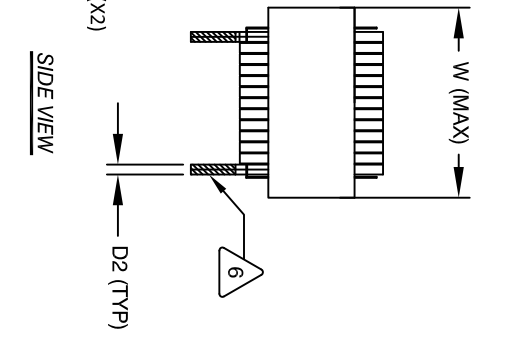
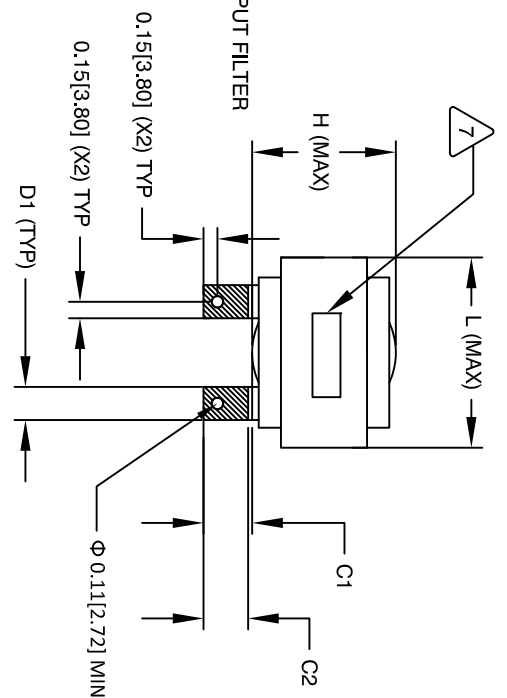
DIMENSIONAL TOLERANCE

	mm	inch
C1	13.0 ± 1.00	0.51 ± 0.04
C2	12.0 ± 0.50	0.47 ± 0.02
D1	7.6 (TYP)	0.30 (TYP)
D2	5.2 (TYP)	0.20 (TYP)
L	58.00 MAX	2.28 MAX
W	58.0 MAX	2.28 MAX
H	36.2 MAX	1.43 MAX

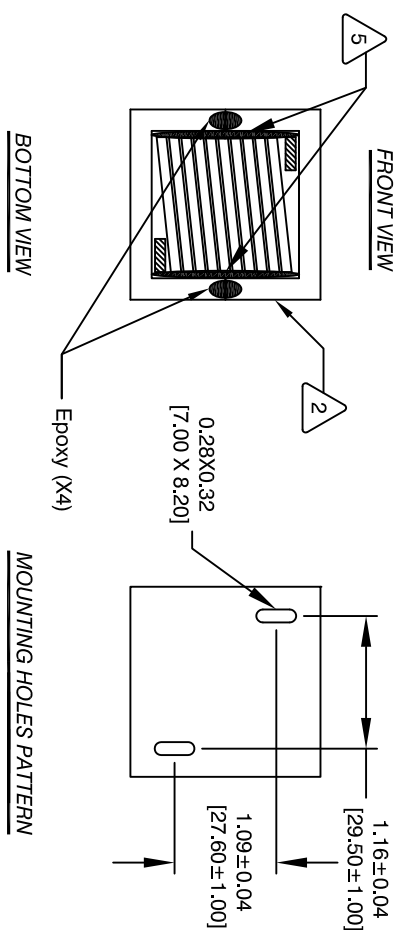


SCHEMATIC

- 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 LEADS MUST BE TINNED ALL SIDES AND TOGETHER
- 5 VARNISH PART AND CURE
- 6 APPLY SILICONE WHERE SHOWN
- 7 WRAP TAPE AROUND CORES WITH CORES AND MYLAR SHEETS ASSEMBLE PRE FORMED FLAT HELICAL COIL CONSTRUCTION



- 8 WEIGHT: 476 GRAMS (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 = 10.1pF TYP @ SRF
|Z| = 1.27 KLO-OHMS TYP @ SRF
SRF = 23.3 MHz TYP
RATED CURRENT: 300 AMPS WITH FORCED AIR FLOW
DCR = 0.3 MILLIOHM MAX.
INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT
L = 4.5 uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS SPECIFICATIONS @ 25°C :
- 9 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



MOUNTING HOLES PATTERN

DC-BIAS	L
0A	4.76uH
10A	4.67uH
20A	4.58uH
40A	4.36uH
60A	4.10uH
80A	3.80uH
100A	3.48uH
120A	3.18uH
140A	2.86uH
160A	2.63uH
180A	2.36uH
200A	2.04uH
220A	1.84uH
240A	1.60uH
260A	1.57uH
280A	1.34uH
300A	1.16uH

- 1 INSULATION CLASS 200°C REQUIRED MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY
- 2 NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.
CAGE CODE: 5DME2

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
			PARTS LIST	
			www.coilws.com	
			353 W. GROVE AVE	
			ORANGE, CA 92665	
			Coil Winding Specialist, Inc.	
			High Current Helical Inductor	
			4.5 uH, 300 Amps, Horizontal	
			SIZE Dwg. No.	REV
			B ES55206-4R5M-300AH	A
			SCALE NOT_TO_SCALE	SHEET 1 OF 1