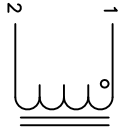


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DIMENSIONAL TOLERANCES INCHES (MM)							
A	C	D	L1	L	W	H	
TYP	TYP	MIN	TYP	TYP	MAX	MAX	
1.50 [38.10]	0.50 [12.70]	12.00 [304.80]	11.00 [279.40]	15.50 [393.70]	4.65 [118.10]	3.80 [96.50]	

REVISION HISTORY				SIGN & DATE			
REV	ECN	DESCRIPTION		BY	DATE	CHK	DATE
A		PRODUCTION RELEASE		TN	11/15/21	AL	11/15/21



SCHEMATIC

- APPLICATION: OUTPUT CHOKE, HIGH CURRENT INDUCTOR, INPUT FILTER
- BUILT TO RoHS COMPLIANCE
- LABEL PART NUMBER, REVISION AND DATE CODE WHERE SHOWN

- VARNISH AND CURE
- APPLY SILICONE IF REQUIRED
- WRAP TAPE AROUND CORES
- WITH CORES AND NOMEX
- PRE FORMED FLAT COPPER SHEETS
- CONSTRUCTION:

- WEIGHT: 46 LB TYP
RECOMMENDED OPERATING FREQUENCY: 60Hz TO 500KHz
RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 105°C
HI-POT TEST FROM WINDING TO CORE 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE = 260pF TYP @ SRF
|Z| = 24 KILO-OHMS TYP @ SRF
SRF = 450 KHz TYP
RATED CURRENT: 450 AMPS, APPROPRIATE AIR FLOW NEEDED.
DCR = 4.2 MILLI-OHM MAX.
L @ DC BIAS: SEE TABLE ON THE RIGHT.
L = 450 uH ± 10%, MEASURED AT 1 KHz, 0.25V, ZERO DC BIAS
- SPECIFICATIONS @ 25°C:

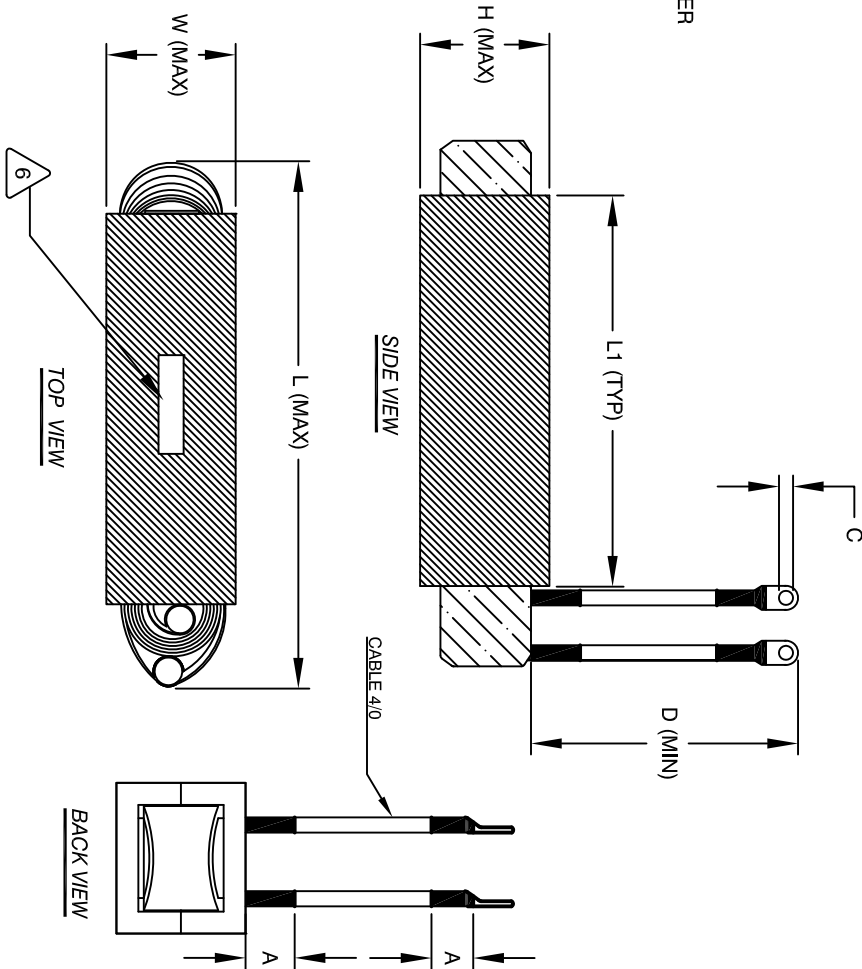
- BAKE VARNISH
SILICONE DOW CORNING OR EQUAL
OUTER WRAP: 3M GLASS TAPE OR EQUAL
- CORE: COMPACTED POWDERED CORE
- MATERIAL: UL RECOGNIZED

ANY TOLERANCE. THIS DIM. CAN VARY A LITTLE FROM PART TO PART.

"TYP" IN DIM. TOL. TABLE REFERS TO A NON-CRITICAL TYPICAL (AVERAGE) DIM. WITHOUT

NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.

CAGE CODE: 5DME2



DC BIAS (AMP)	L@1KHz (REF)
0	468uH
10	467uH
20	464uH
30	460uH
40	453uH
50	445uH

PARTS LIST			
AUTOCAD	X		
SOLIDWORKS			
SIGN	DATE		
DRAWN	TN	11/15/21	
CHECKED	JM	11/15/21	
ENGR.	JL	11/15/21	
APPR.	JL	11/15/21	
UNLESS OTHERWISE SPECIFIED			
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M			
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].			
TOLERANCE INCHES: .XXX=±.010 .XX=±.020 .XX=±.254 .XX=±.51			
TOLERANCE METRICS: .X=±0.30° .X=±0.30°			
ANGLE PROJECTION			
DO NOT SCALE DRAWING			
www.coilws.com			
Coil Winding Specialist, Inc.			
353 W GROVE AVE			
ORANGE, CA 92665			
TITLE: High Current Inductor			
High Frequency Inductor			
450 uH, 450 Amps			
SIZE DIM. NO.			
HCS-451M-450A			
SCALE NOT TO SCALE			
SHEET 1 OF 1			