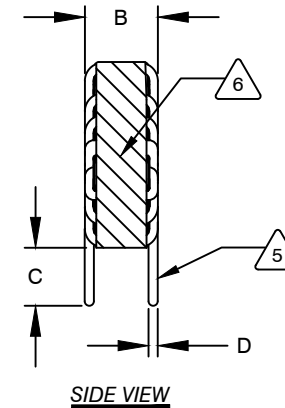
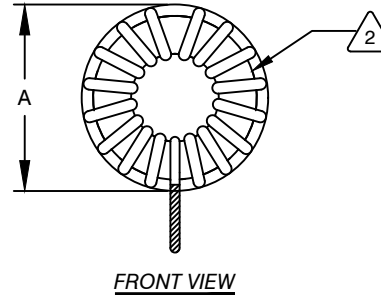
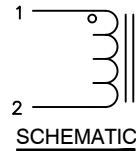


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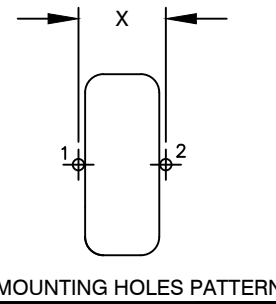
DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C TYP	D REF	X REF
0.82 [20.83]	0.40 [10.16]	0.50 [12.70]	0.036 [0.91]	0.32 [8.13]

REVISION HISTORY					
REV	ECN	DESCRIPTION	SIGN & DATE		
BY	DATE	CHK	DATE		
B	—	UPDATED SPEC.	TDK	6/26/20	JLAU 6/26/20
C	—	UPDATED SPEC.	TN	08/01/2020	JL 08/01/2020



DC BIAS TABLE

DC BIAS (AMP)	L@ 1KHz (REF)
0	53uH
1.0	52uH
2.0	50uH
3.0	48uH
4.0	46uH
4.8	44uH



- 7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.
USING A PERMANENT MARKING METHOD
MARK PART NUMBER, REVISION AND DATE CODE
- 6 WRAP INDUCTOR WITH 3M # 79 OR EQUAL
- 5 (I.E. COIL MUST REST FLAT ON PCB). LEADS MUST BE TANGENT TO THE CORE
REMOVE INSULATION AND TIN LEADS 0.5 INCH, FLUSH WITH THE COIL EDGE
- 4 WIND COILS EVENLY SPACED AROUND THE CORE
CONSTRUCTION:
THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: 11 GRAMS TYPICAL
INTERWINDING CAPACITANCE = 18.7pF TYP @ SRF
SRF = 5.0MHz TYPICAL
|Z| = 6.95 KILO-OHMS TYP @ SRF
RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 155°C
HI-POT TEST FOR WINDING TO CORE ISOLATION = 500VDC MIN.
INDUCTOR CURRENT RATING : 4.8 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW
DCR = 30.0 MILLI-OHMS MAX.
INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT
INDUCTANCE = 50uH±10% @ 0 AMP DC BIAS, 1.0 KHz, 250mV
- 3 SPECIFICATIONS: @ 25°C:
- 2 WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CORE: POWDERED TOROIDAL CORE, CWS BYTE MARK OR OTHER APPROVED PART
- 1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY, RATING CLASS B (130°C MIN.) REQUIRED
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 STATED, READ NOTES FROM BOTTOM UP.
CAGE CODE: 5DME2

UNLESS OTHERWISE SPECIFIED	
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M	
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].	
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 <1=±0°30'	
TOLERANCE METRICS: .XXX=±.127 .XX=±.38 <1=±0°30'	
ANGLE PROJECTION	
DO NOT SCALE DRAWING	

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST			
AUTOCAD	X	COILWS.COM, INC www.coilws.com CWS Coil Winding Specialist. 353 W. Grove Ave. Orange, CA 92865	TITLE: TOROIDAL POWER INDUCTOR 50uH, 4.8 Amps, Vertical
SOLIDWORKS			
SIGN	DATE		
DRAWN TDK	2/8/04		
CHECKED JLAU	2/9/04		
ENGR. KSUM	3/5/04	SIZE DWG. NO. B HF166-500M-4.8AV	REV C
APPR. JLAU	3/6/04		
SCALE		2=1	SHEET 1 OF 1