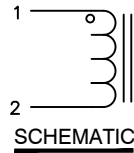


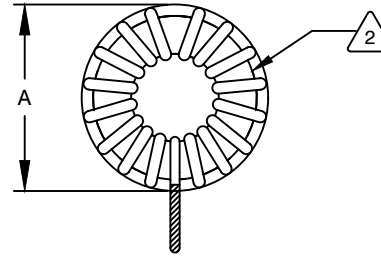
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DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C TYP	D TYP	X REF
0.82 [20.83]	0.40 [10.16]	0.50 [12.70]	0.028 [0.71]	0.32 [8.13]

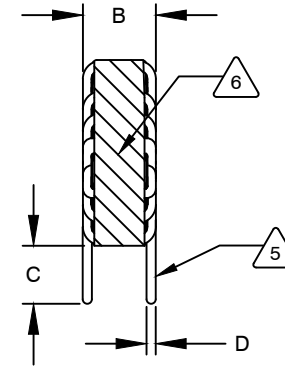
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	—	PRODUCTION RELEASE	TDK	2/09/04	JLAU	2/09/04
B	—	UPDATED SPEC.	TN	08/01/2020	JL	08/01/2020



SCHEMATIC



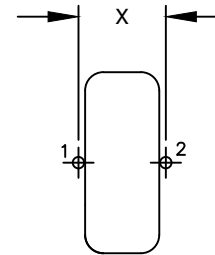
FRONT VIEW



SIDE VIEW

DC BIAS TABLE

DC BIAS (AMP)	L@ 1KHz (REF)
0	94uH
1	93uH
2	90uH
3.3	87uH



MOUNTING HOLES PATTERN

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

(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

5 WIND COILS EVENLY SPACED AROUND THE CORE

4 CONSTRUCTION:

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT

WEIGHT: 10 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 17.4pF TYP @ SRF

SRF = 3.9 MHz TYPICAL

|Z| = 14.7 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 : 3.3 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW

DCR = 65.0 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 100uH±10% @ 0 AMP DC BIAS, 1.0 KHz, 250mV

3 SPECIFICATIONS: @ 25°C:

5 WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE

CORE: POWDERED TOROIDAL CORE, CWS BYTEMARK 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 100uH, 3.3 Amps, Vertical
SOLIDWORKS			
SIGN	DATE		
DRAWN	TDK 2/8/04		
CHECKED	JLAU 2/9/04		
ENGR.	KSUM 3/5/04	SIZE DWG. NO. B HF166-101M-3.3AV	REV B
APPR.	JLAU 3/6/04		
SCALE		2=1	SHEET 1 OF 1