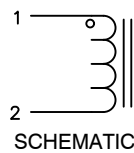
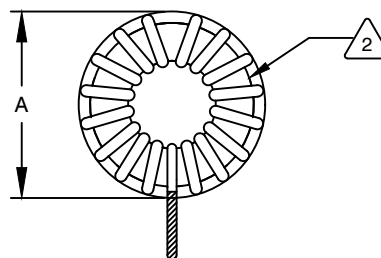


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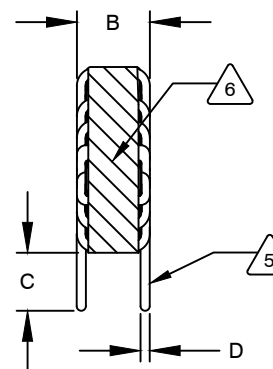


DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C TYP	D TYP	X REF
0.63 [16.00]	0.30 [7.62]	0.50 [12.70]	0.028 [0.71]	0.25 [6.35]

REVISION HISTORY					
REV	ECN	DESCRIPTION	SIGN & DATE		
			BY	DATE	CHK DATE
B	—	UPDATED SPEC.	TDK	2/4/16	JLAU 2/4/16
C	—	UPDATED SPEC.	TN	08/01/2020	JL 08/01/2020



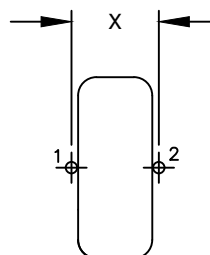
FRONT VIEW



SIDE VIEW

DC BIAS TABLE

DC BIAS (AMP)	L@ 1KHz (REF)
0	50uH
1.0	49uH
2.0	47uH
3.0	44uH
4.0	42uH



MOUNTING HOLES PATTERN

7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.

USING A PERMANENT MARKING METHOD
MARK PART NUMBER, REVISION AND DATE CODE
WRAP INDUCTOR WITH 3M # 79 OR EQUAL

6

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
WIND COILS EVENLY SPACED AROUND THE CORE
CONSTRUCTION:

4

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: 5 GRAMS TYPICAL
SRF: GREATER THAN 10MHz
RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 155°C
HI-POT TEST FOR WINDING TO CORE ISOLATION = 500VDC MIN.
INDUCTOR CURRENT RATING : 4 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW
DCR = 35.0 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 <1/16±0.030	
TOLERANCE METRICS: .XXX±.127 .XX±.38 <1/16±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	
SOLIDWORKS				
SIGN	DATE	TITLE: TOROIDAL POWER INDUCTOR 50uH, 4.0 Amps, Vertical		
DRAWN	TDK 2/8/04			
CHECKED	JLAU 2/9/04			
ENGR.	KSUM 3/5/04			
APPR.	JLAU 3/6/04	SIZE	DWG. NO.	REV
		B	HF127-500M-4.0AV	C
		SCALE	2=1	SHEET 1 OF 1