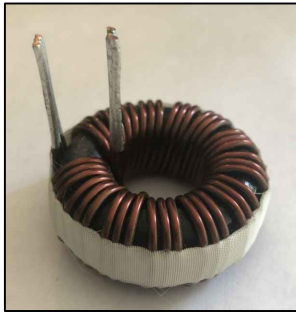


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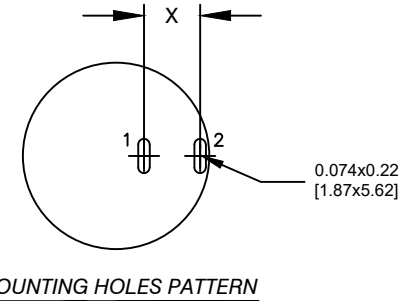
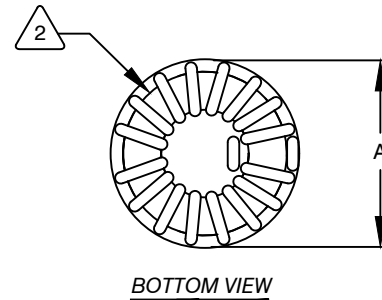
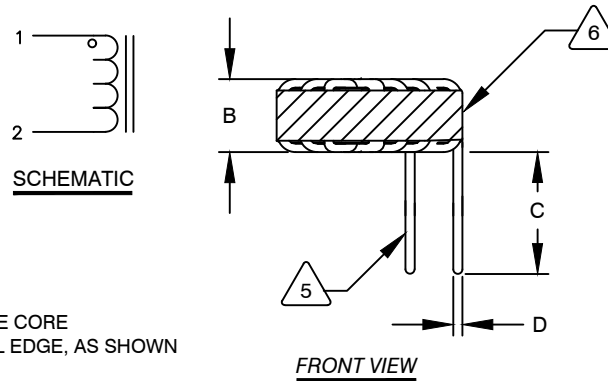


DIMENSIONAL TOLERANCES INCHES [MM]				
A	B	C	D	X
MAX	MAX	MIN	REF	REF
1.85 [47.00]	1.00 [25.40]	0.75 [19.05]	0.06x0.19 [1.63x4.88]	0.50 [12.70]

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	-	INITIAL RELEASE	JL	11/18/2017	JLAU	11/18/2017
A1	-	UPDATED SPECS.	JZ	08/17/2020	JL	08/17/2020

- 7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.
 USING A PERMANENT MARKING METHOD
 MARK PART NUMBER AND REVISION, IF APPLICABLE
- 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 0.75 INCH, FLUSH WITH THE COIL EDGE, AS SHOWN
- 5 WIND COILS EVENLY SPACED AROUND THE CORE
 CONSTRUCTION:
 THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
 WEIGHT: 140 GRAMS TYPICAL
 INTERWINDING CAPACITANCE = 18 pF TYP @ SRF
 SRF = 10 MHz TYPICAL
 $|Z| = 1.55$ KILO-OHMS TYP @ SRF
 RECOMMENDED AMBIENT OPERATING TEMP: -40 °C TO 200°C
 HI-POT TEST FOR WINDING TO CORE ISOLATION = 500 VDC 10 SEC
 CURRENT RATING : 50 AMPS, 40 °C TEMP. RISE WITH SOME AIR FLOW
 DCR = 2.5 MILLI-OHMS MAX.
 INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT
 INDUCTANCE = 17 uH ± 15% @ 0 AMP DC BIAS, 1.0 KHz, 300mV
- 4 SPECIFICATIONS @ 25°C :

- 2 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 H (180°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



DC BIAS TABLE

DC BIAS (AMP)	L @ 1.0 KHz
0	17.0uH
5	15.7uH
10	15.0uH
15	14.2uH
20	13.4uH
25	12.5uH
30	11.6uH
35	10.7uH
40	9.8uH
45	9.0uH
50	8.2uH

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

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST			
AUTOCAD	X		
SOLIDWORKS			
SIGN	DATE	COILWS COM, INC www.coilws.com CWS Coil Winding Specialist. 353 W Grove Ave Orange, CA. 92865	
DRAWN	DATE		
CHECKED	DATE	TITLE: TOROIDAL POWER INDUCTOR 17 uH, 50 Amps, Horizontal	
ENGR.	DATE		
APPR.	DATE	SIZE B DWG. NO. SN400-170M-50AH SCALE 2=1	REV A1