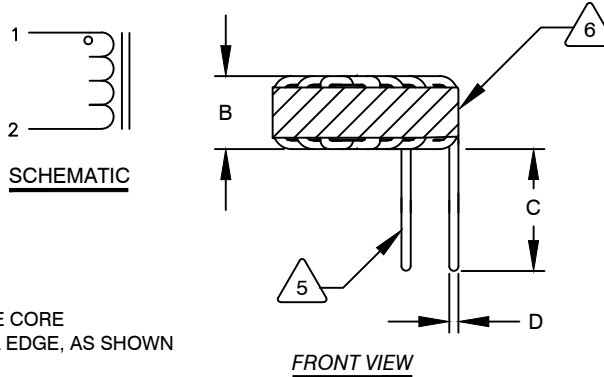


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DIMENSIONAL TOLERANCES INCHES [MM]				
A	B	C	D	X
MAX	MAX	MIN	REF	REF
1.42 [36.00]	0.87 [22.00]	0.75 [19.05]	0.06x1.14 [1.63x3.26]	0.50 [12.70]

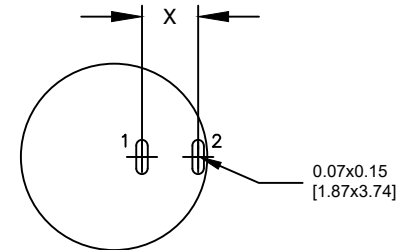
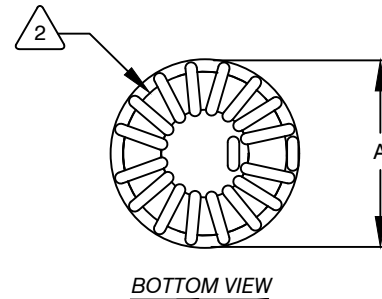
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	-	INITIAL RELEASE	JL	11/18/2017	JLAU	11/18/2017
A1	-	UPDATED SPECS.	JZ	10/18/2020	JL	10/18/2020



DC BIAS TABLE

DC BIAS (AMP)	L @ 1.0 KHz
0	5.5uH
5	5.5uH
10	5.4uH
15	5.3uH
20	5.2uH
25	5.0uH
30	4.9uH

- 7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.
 USING A PERMANENT MARKING METHOD
 MARK PART NUMBER AND REVISION, IF APPLICABLE
 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
- 4 WIND COILS EVENLY SPACED AROUND THE CORE
 CONSTRUCTION:
 THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
 WEIGHT: 65 GRAMS TYPICAL
 INTERWINDING CAPACITANCE = 64 pF TYP @ SRF
 SRF = 10 MHz TYPICAL
 |Z| = 360 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 : 30 AMPS, 40 °C TEMP. RISE WITH SOME AIR FLOW
 DCR = 3 MILLI-OHMS MAX.
 INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT
 INDUCTANCE = 5.5 uH ± 15% @ 0 AMP DC BIAS, 1.0 KHz, 300mV
- 3 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

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	COILWS COM, INC www.coilws.com	CWS Coil Winding Specialist. 353 W Grove Ave Orange, CA. 92865
SOLIDWORKS			
SIGN	DATE	TITLE: TOROIDAL POWER INDUCTOR 5.5 uH, 30 Amps, Horizontal	
DRAWN	JL 11/18/2017		
CHECKED	JLAU 11/18/2017		
ENGR.	JLAU 11/18/2017		
APPR.	JLAU 11/18/2017	SIZE DWG. NO. B SN270-5R5M-30AH	REV A1
SCALE		2=1	SHEET 1 OF 1