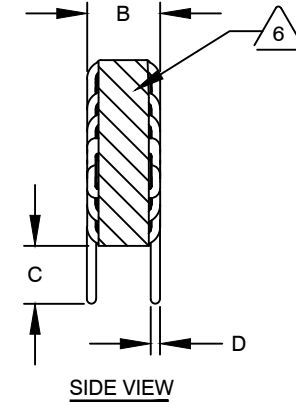
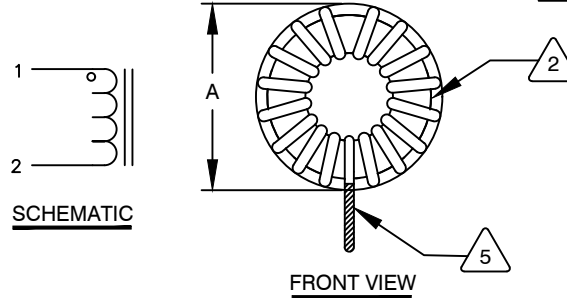


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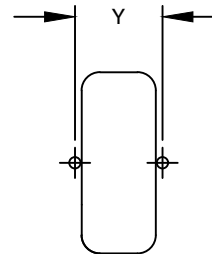
DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C MIN	D REF	Y REF
1.23 [31.25]	0.70 [17.80]	0.50 [12.70]	0.07 [1.83]	0.61 [15.52]

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	-	INITIAL RELEASE	JLL	03/24/2011		
A1	-	UPDATED SPECS.	JZ	01/22/2021	JL	01/22/2021



DC BIAS TABLE

DC BIAS (AMP)	L @ 1.0 KHz
0	12.8uH
5	11.4uH
10	9.7uH
15	8.5uH
20	7.2uH



- 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

5 (I.E. COIL MUST REST FLAT ON PCB). LEADS MUST BE TANGENT TO THE CORE  
 REMOVE INSULATION AND TIN LEADS 0.50 INCH, FLUSH WITH THE COIL EDGE, AS SHOWN

4 CONSTRUCTION: WIND COILS EVENLY SPACED AROUND THE CORE

WEIGHT: 36 GRAMS TYPICAL  
 INTERWINDING CAPACITANCE = 32.8 pF TYP @ SRF  
 SRF = 10 MHz TYPICAL  
 |Z| = 875 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 : 19.6 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW  
 DCR = 2.62 MILLI-OHMS MAX.  
 INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 12 uH ± 15% @ 0 AMP DC BIAS, 1.0 KHz, 300mV  
 3 SPECIFICATIONS: @ 25° C

2 WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE  
 CORE: HIGH 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. 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 <math>\angle = \pm 0^{\circ}30'</math>  
 TOLERANCE METRICS:  
 .XXX=±.127 .XX=±.38 <math>\angle = \pm 0^{\circ}30'</math>  
 ANGLE PROJECTION  
 DO NOT SCALE DRAWING

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
<b>PARTS LIST</b>			
AUTOCAD	X	<b>COILWS COM, INC</b> www.coilws.com	CWS Coil Winding Specialist. 353 WEST GROVE ORANGE, CA 92865
SOLIDWORKS			
DRAWN	SIGN DATE	TITLE: TOROIDAL POWER INDUCTOR 12 uH, 19.6 Amps, Vertical	
CHECKED	CT 10/06/2008		
ENGR.	KLC 10/06/2008		
APPR.	KLC 10/06/2008		
SIZE	DWG. NO.	REV	
B	SN270-120M-19.6AV	A1	
SCALE	2=1		SHEET 1 OF 1