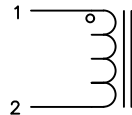


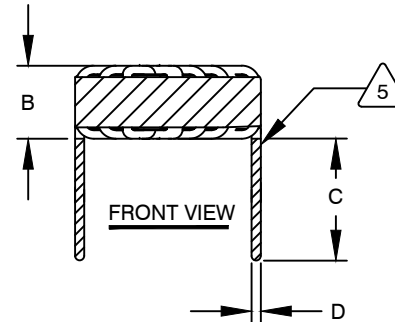
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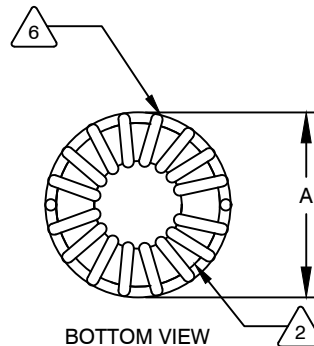
DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C MIN	D REF	X REF
1.30 [33.02]	0.62 [15.87]	0.50 [12.70]	0.057 [1.46]	1.23 [31.25]



SCHEMATIC



FRONT VIEW

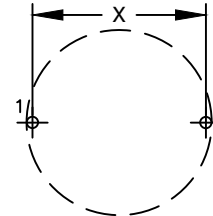


BOTTOM VIEW

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	—	INITIAL RELEASE	JL	05/05/2011		
B	—	REVISED MECHANICAL SPEC.	TN	02/04/2020	JL	02/04/2020
B1	—	UPDATED SPECS.	JZ	08/20/2021	JL	08/20/2021

DC BIAS TABLE

DC BIAS (AMP)	L @ 1.0 KHz
0	73.2uH
2	67.2uH
4	58.7uH
6	50.1uH
8	42.2uH
10	35.5uH



MOUNTING HOLES PATTERN

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 WIND COILS EVENLY SPACED AROUND THE CORE
CONSTRUCTION:

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: 40 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 14.85 pF TYP @ SRF

SRF = 4.9 MHz TYPICAL

|Z| = 7.35 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 : 10 AMPS, 40 °C TEMP. RISE WITH SOME AIR FLOW

DCR = 9.64 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 68 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 BYTE MARK 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 <X=±0°30'	
TOLERANCE METRICS: .XXX=±.127 .XX=±.38 <X=±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 68 uH, 10 Amps, Horizontal					
DRAWN		KLC 10/06/2008							
CHECKED		CT 10/06/2008							
ENGR.		KLC 10/06/2008							
APPR.		JLAU 05/03/2011							
		SIZE B		DWG. NO.		SN270-680M-10AH		REV B1	
		SCALE		2=1		SHEET 1		OF 1	