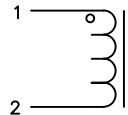


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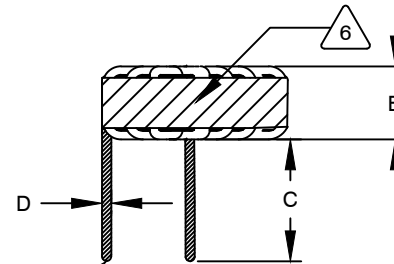


DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C MIN	D REF	X REF
0.52 [13.20]	.29 [7.30]	.50 [12.70]	.02 [0.51]	0.28 [7.20]

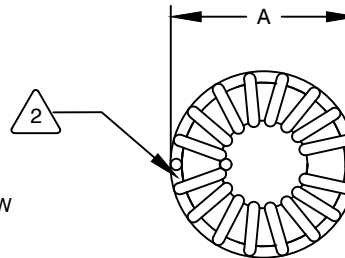
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	—	INITIAL RELEASE	TN	02/08/2018	JL	02/08/2018
A1	—	UPDATED SPECS.	JZ	08/17/2020	JL	08/17/2020



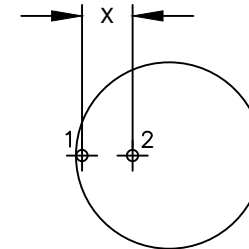
SCHEMATIC



FRONT VIEW



BOTTOM VIEW



MOUNTING HOLES PATTERN

DC BIAS TABLE

DC BIAS (AMP)	L @ 1.0 KHz
0.0	45uH
0.5	41uH
1.0	38uH
1.5	33uH
2.0	29uH

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: 2.83 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 10 pF TYP @ SRF

SRF = 8.2 MHz TYPICAL

|Z| = 2.3 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 : 2 AMPS, 40 °C TEMP. RISE WITH SOME AIR FLOW

DCR = 40 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 48 uH ± 15% @ 0 AMP DC BIAS, 1.0 KHz, 300mV

3 SPECIFICATIONS @ 25°C :

2 WIRE: UL RECOGNIZED 155°C RATED MAGNET WIRE
CORE: POWDERED TOROIDAL CORE, CWS BYTEMARK 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 <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 48 uH, 2 Amps, Horizontal				
DRAWN		TN 02/08/2018						
CHECKED		JL 02/08/2018						
ENGR.		JM 02/08/2018						
APPR.		JL 02/08/2018						
		SIZE		DWG. NO.			REV	
		B		SN102-480M-2AH			A1	
		SCALE		2=1			SHEET 1 OF 1	