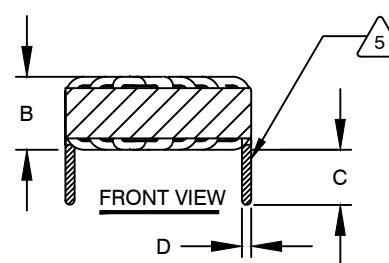
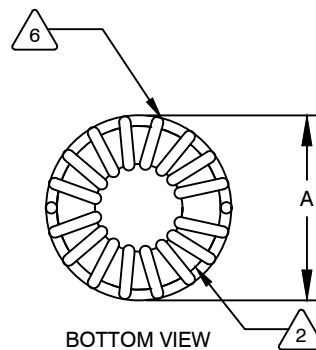
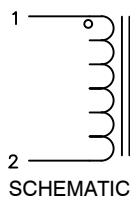


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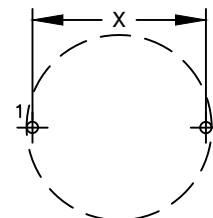
DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C MIN	D REF	X REF
1.300 [33.02]	.650 [16.51]	.500 [12.70]	.071 [1.40]	1.200 [30.48]

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	—	INITIAL RELEASE	KLC	10/01/2010	AK	10/01/2010
A1	—	UPDATED SPECS.	JZ	11/24/2020	JL	11/24/2020



DC BIAS TABLE

DC BIAS (AMP)	L @ 1.0 KHz
0	45uH
2	45uH
6	44uH
10	42uH
13	41uH



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: 45 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 11.60 pF TYP @ SRF

SRF = 6.79 MHz TYPICAL

|Z| = 5.76 KILO-OHMS TYP @ SRF

RECOMMENDED AMBIENT OPERATING TEMP: -40 °C TO 200°C

HI-POT TEST FOR WINDING TO CORE ISOLATION = 1250 VDC 10 SEC

CURRENT RATING : 13 AMPS, 40 °C TEMP. RISE WITH SOME AIR FLOW

DCR = 11.89 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 47 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 <1/16" = ±0.030	
TOLERANCE METRICS:	
.XXX = ±.127 .XX = ±.38 <4mm = ±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									
DRAWN		KLC	10/01/2010	TITLE: TOROIDAL POWER INDUCTOR 47 uH, 13 Amps, Horizontal							
CHECKED		AK	10/01/2010								
ENGR.		KLC	10/01/2010								
APPR.		KLC	10/01/2010								
				SIZE		DWG. NO.				REV	
				B		MF270-470M-13AH				A1	
				SCALE		2=1				SHEET 1 OF 1	