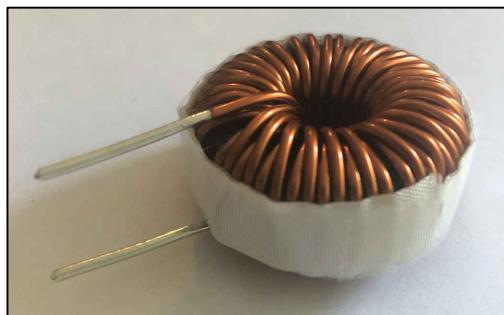
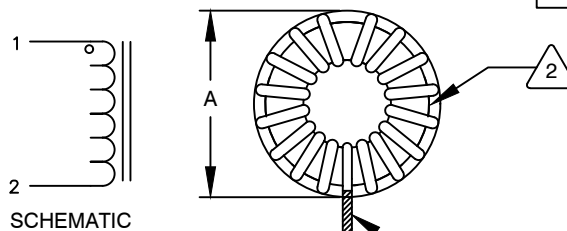


The information contained in this drawing is the sole property of CWS Coil Winding Specialist.
Any reproduction in part or whole without written permission of CWS Coil Winding Specialist is prohibited.

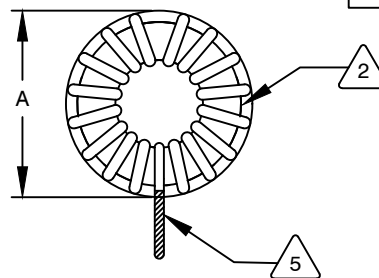


DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C MIN	D REF	Y REF
1.350 [34.29]	.700 [17.78]	.500 [12.70]	.051 [1.30]	0.600 [15.24]

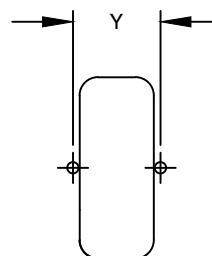
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	—	INITIAL RELEASE	KLC	10/01/2010	AK	10/01/2010
A1	—	UPDATED SPECS.	JZ	12/19/2020	JL	12/19/2020



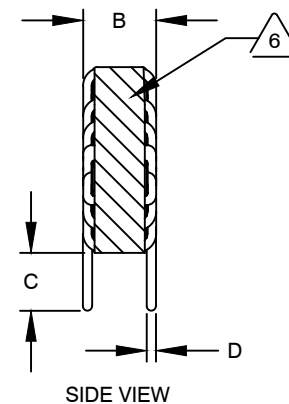
SCHEMATIC



FRONT VIEW



MOUNTING HOLES PATTERN



SIDE VIEW

DC BIAS TABLE

DC BIAS (AMP)	L @ 1.0 KHz
0	184uH
1	178uH
3	173uH
6	162uH
9	143uH

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 0.50 INCH, FLUSH WITH THE COIL EDGE, AS SHOWN

4 CONSTRUCTION: WIND COILS EVENLY SPACED AROUND THE CORE

WEIGHT: 53 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 26.91 pF TYP @ SRF

SRF = 2.30 MHz TYPICAL

|Z| = 10.95 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 : 9 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW

DCR = 35.0 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 180 uH ± 15% @ 0 AMP DC BIAS, 1.0 KHz, 300mV

3 SPECIFICATIONS: @ 25° C



WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE

CORE: HIGH 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. 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" ± .030	
TOLERANCE METRICS:	
.XXX ± .127 .XX ± .38 <1" ± .030	
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 WEST GROVE ORANGE, CA 92865	
SOLIDWORKS							
SIGN		DATE					
DRAWN		KLC	10/01/2010	TITLE: TOROIDAL POWER INDUCTOR 180 uH, 9 Amps, Vertical			
CHECKED		AK	10/01/2010				
ENGR.		KLC	10/01/2010				
APPR.		KLC	10/01/2010				
		SIZE		DWG. NO.		REV	
		B		MF270-181M-9AV		A1	
		SCALE		2=1		SHEET 1 OF 1	