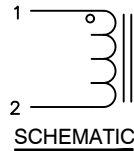
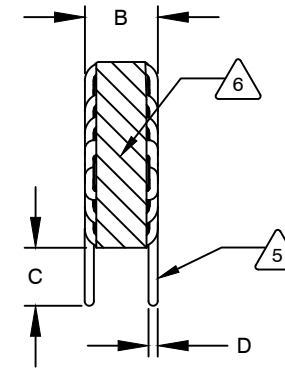
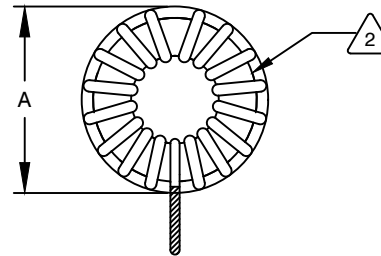


The information contained in this drawing is the sole property of CWS Coil Winding Specialist.
Any reproduction in part or whole without written permission of CWS Coil Winding Specialist is prohibited.



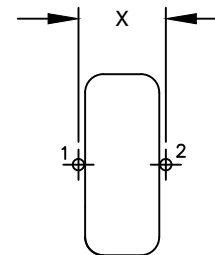
DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C REF	D REF	X REF
0.74 [18.80]	0.38 [9.65]	0.50 [12.70]	0.057 [1.45]	0.35 [8.89]

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
B	—	ELEC. AND MECH. SPECS CHANGE	AK	11/01/12	JLAU	11/01/12
C	—	UPDATED SPEC.	TN	08/01/2020	JL	08/01/2020



DC BIAS TABLE

DC BIAS (AMP)	L@ 1KHz (REF)
0	1.5uH
5	1.4uH
10	1.4uH
16	1.3uH
18	1.1uH



7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.

6 USING A PERMANENT MARKING METHOD
MARK PART NUMBER, REVISION AND DATE CODE
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 0.5 INCH, FLUSH WITH THE COIL EDGE

4 WIND COILS EVENLY SPACED AROUND THE CORE
CONSTRUCTION:

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: 5 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 8.9pF TYP @ SRF

SRF = 46.8 MHz TYPICAL

|Z| = 588 OHMS TYP @ SRF

RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 155°C

HI-POT TEST FOR WINDING TO CORE ISOLATION = 500VDC MIN.

INDUCTOR CURRENT RATING : 18 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW

DCR = 2.0 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 1.3uH±15% @ 0 AMP DC BIAS, 1.0 KHz, 250mV

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 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 <1=±0°30'	
TOLERANCE METRICS: .XXX=±.127 .XX=±.38 <1=±0°30'	
ANGLE PROJECTION	
DO NOT SCALE DRAWING	

CODE IDENT		MFG. P/N	DESCRIPTION		ITEM NO.
PARTS LIST					
AUTOCAD		X		COILWS COM, INC CWS Coil Winding Specialist. 353 W. Grove Ave. Orange, CA 92865	
SOLIDWORKS					
SIGN		DATE		TITLE: TOROIDAL POWER INDUCTOR 1.3uH, 18.0 Amps, Vertical	
DRAWN	KCL	11/01/12			
CHECKED	AM	11/01/12			
ENGR.	KCL	11/01/12			
APPR.	KCL	11/01/12			
		SIZE DWG. NO.		REV	
		B HF127-015M-18.0AV		C	
		SCALE 2=1			SHEET 1 OF 1