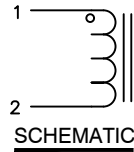
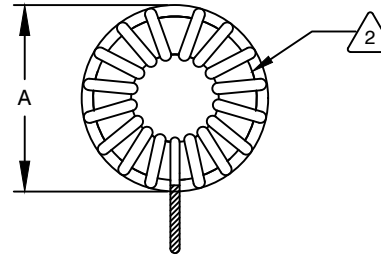


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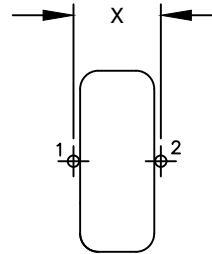


SCHEMATIC

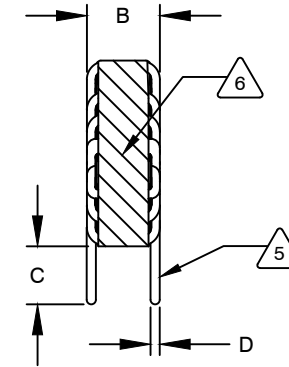
DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C MIN	D REF	X REF
0.94 [23.88]	0.53 [13.46]	0.50 [12.70]	0.072 [1.83]	0.45 [11.43]



FRONT VIEW



MOUNTING HOLES PATTERN



SIDE VIEW

DC BIAS TABLE

DC BIAS (AMP)	L@ 1KHz (REF)
0	2.9uH
5	2.9uH
10	2.8uH
15	2.5uH
20	2.1uH
25	2.0uH

7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.

USING A PERMANENT MARKING METHOD
MARK PART NUMBER, REVISION AND DATE CODE
WRAP INDUCTOR WITH 3M # 79 OR EQUAL

6

(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

5

WIND COILS EVENLY SPACED AROUND THE CORE
CONSTRUCTION:

4

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: 14 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 9.4pF TYP @ SRF

SRF = 30 MHz TYPICAL

|Z| = 867 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 : 25 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW

DCR = 2.0 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 2.8uH±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	

REVISION HISTORY					
REV	ECN	DESCRIPTION	SIGN & DATE		
			BY	DATE	CHK
B	—	ELEC. AND MECH. SPECS CHANGE	AK	11/30/12	JLAU
C	—	UPDATED SPEC.	TN	08/01/2020	JL

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 2.8uH, 25.0 Amps, Vertical					
DRAWN		KCL 4/9/09							
CHECKED		AM 4/9/09							
ENGR.		KCL 4/9/09							
APPR.		KCL 4/9/09							
				SIZE		DWG. NO.		REV	
				B		HF166-2R8M-25.0AV		C	
				SCALE		2=1		SHEET 1 OF 1	