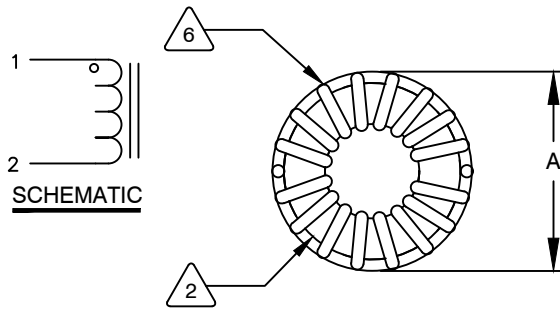


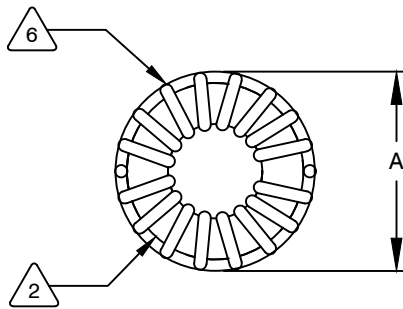
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DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C TYP	D TYP	X REF
1.30 [33.02]	0.65 [16.51]	0.75 [19.05]	0.051 [1.30]	1.25 [31.75]

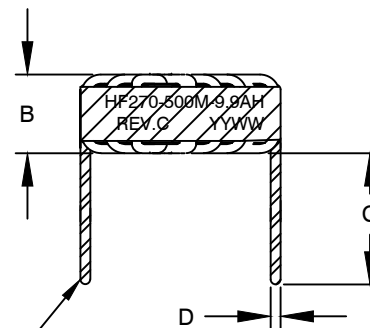


SCHEMATIC

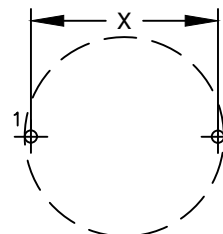


BOTTOM VIEW

REVISION HISTORY					
REV	ECN	DESCRIPTION	SIGN & DATE		
			BY	DATE	CHK
B	—	UPDATED SPEC.	KLC	3/8/04	JLAU
C	—	UPDATED SPEC.	TN	07/14/2020	JL



FRONT VIEW



MOUNTING HOLES PATTERN

DC BIAS TABLE

DC BIAS (AMP)	L@ 1KHz (REF)
0	50uH
1	50uH
2	49uH
4	49uH
6	49uH
8	47uH
9	46uH
9.9	46uH

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

5

(I.E. COIL MUST REST FLAT ON PCB). LEADS MUST BE TANGENT TO THE CORE
REMOVE INSULATION AND TIN LEADS 0.75 INCH, FLUSH WITH THE COIL EDGE

WIND COILS EVENLY SPACED AROUND THE CORE
CONSTRUCTION:

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: 50 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 15TYP @ SRF

SRF = 5.6MHz TYPICAL

|Z| = 8.7KILLO-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 : 9.9 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW

DCR = 16.0 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 50uH±10% @ 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 www.coilws.com	CWS Coil Winding Specialist. 1510 E. Edinger Ave. Unit B. Santa Ana, CA. 92705
SOLIDWORKS	DATE		
DRAWN	TDK	2/8/04	TITLE: TOROIDAL POWER INDUCTOR 50uH, 9.9Amps, Horizontal
CHECKED	JLAU	2/8/04	
ENGR.	KSUM	2/8/04	
APPR.	JLAU	2/8/04	
SIZE	B	DWG. NO.	HF270-500M-9.9AH
SCALE	2=1	REV	C
SHEET 1 OF 1		1	