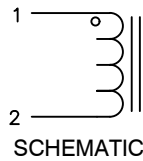


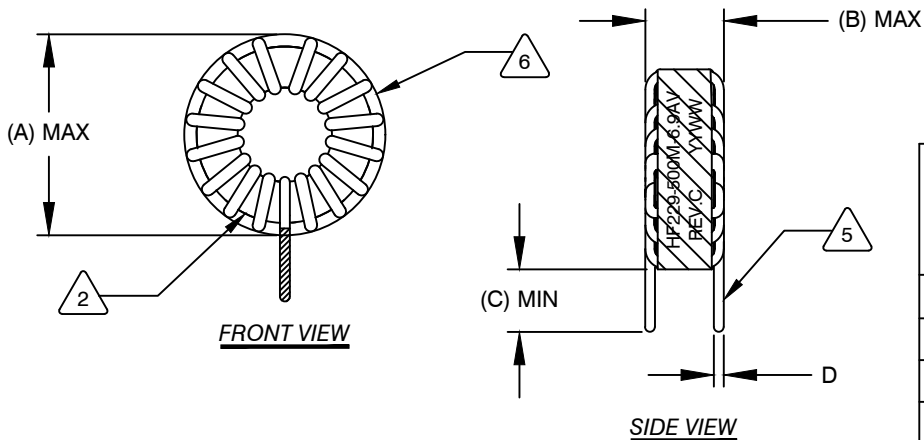
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SCHEMATIC

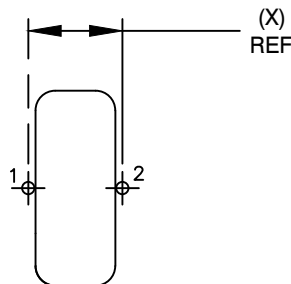
DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C TYP	D REF	X REF
1.10 [27.94]	0.48 [12.19]	0.50 [12.70]	0.046 [1.17]	0.37 [9.40]

REVISION HISTORY					
REV	ECN	DESCRIPTION	SIGN & DATE		
			BY	DATE	CHK DATE
B	—	UPDATED SPEC.	TDK	5/09/04	JLAU 5/09/04
C	—	UPDATED SPEC.	TN	07/14/2020	JL 07/14/2020



DC BIAS TABLE

DC BIAS (AMP)	L@ 1KHz (REF)
0	51uH
1	51uH
2	50uH
4	50uH
5	50uH
6	48uH
6.9	48uH



MOUNTING HOLES PATTERN

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

(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

WIND COILS EVENLY SPACED AROUND THE CORE
CONSTRUCTION:

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: 50 GRAMS TYPICAL
INTERWINDING CAPACITANCE = 14.4pF TYP @ SRF
SRF = 5.72MHz TYP
|Z| = 11.3KILO-OHMS TYP @ SRF
RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 155°C
HI-POT TEST FOR WINDING TO CORE ISOLATION = 500VDC MIN.
CURRENT RATING : 6.9 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW
DCR = 22 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:

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

CODE IDENT		MFG. P/N		DESCRIPTION		ITEM NO.	
PARTS LIST							
AUTOCAD		X		CWS Coil Winding Specialist. 1510 E. Edinger Ave. Unit B. Santa Ana, CA. 92705			
SOLIDWORKS							
SIGN		DATE		COILWS COM, INC www.coilws.com			
DRAWN		TDK 2/8/04		TITLE: TOROIDAL POWER INDUCTOR 50uH, 6.9 Amps, Vertical			
CHECKED		JLAU 2/9/04					
ENGR.		KSUM 3/5/04					
APPR.		JLAU 3/6/04					
		SIZE B		DWG. NO. HF229-500M-6.9AV		REV C	
		SCALE 2=1		SHEET 1 OF 1			

UNLESS OTHERWISE SPECIFIED			
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M			
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].			
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 <I=±0°30'			
TOLERANCE METRICS: .XXX=±.127 .XX=±.38 <I=±0°30'			
ANGLE PROJECTION			
DO NOT SCALE DRAWING			