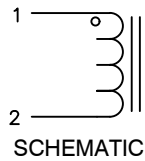


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SCHMATIC

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 0.50 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 = 16.3pF TYP @ SRF

SRF = 5.33MHz TYP

$|Z| = 6.7\text{KILO-OHMS TYP @ SRF}$

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

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

CURRENT RATING : 8.3 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW

DCR = 22.0 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = $50\mu\text{H} \pm 10\%$ @ 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.

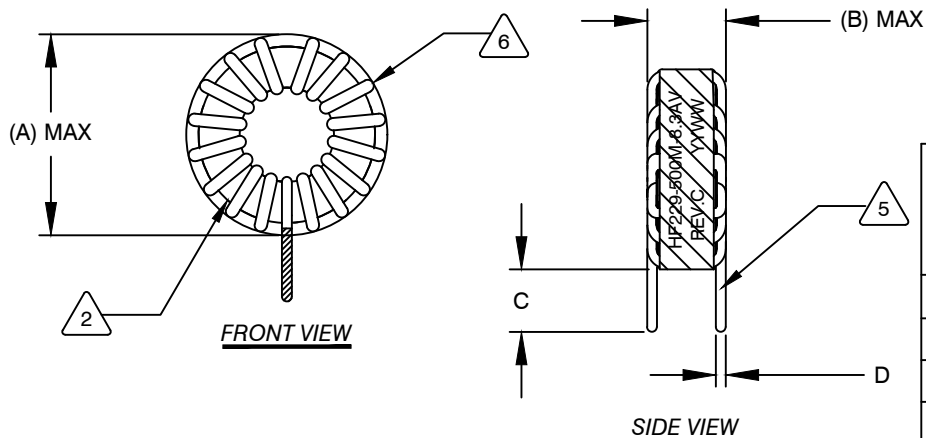
CAGE CODE: 5DME2

**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]	0.05 [1.27]	0.37 [9.40]

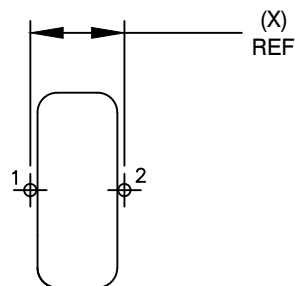
REVISION HISTORY

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	51uH
4	50uH
6	49uH
8	47uH
8.3	47uH



MOUNTING HOLES PATTERN

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							
SIGN		DATE		TITLE: TOROIDAL POWER INDUCTOR 50uH, 8.3 Amps, Vertical			
DRAWN		BJN 2/8/04					
CHECKED		JLAU 2/9/04					
ENGR.		KSUM 3/5/04					
APPR.		JLAU 3/6/04					
		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 <1=±0°30'
TOLERANCE METRICS: .XXX=±.127 .XX=±.38 <1=±0°30'
ANGLE PROJECTION
DO NOT SCALE DRAWING