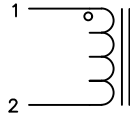


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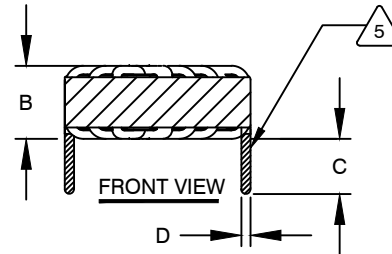


DIMENSIONAL TOLERANCES INCHES [MM]				
A	B	C	D	X
MAX	MAX	MIN	REF	REF
1.30	.63	.50	.065	1.18
[33.00]	[16.00]	[12.70]	[1.65]	[30.00]

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	-	INITIAL RELEASE	JLL	03/24/2011		
B	-	ELECT. AND MECH. SPECS. CHANGE	AK	08/15/2012	JL	08/15/2012
B1	-	UPDATED SPECS.	JZ	08/05/2020	JL	08/05/2020



**SCHEMATIC**



**FRONT VIEW**

**DC BIAS TABLE**

DC BIAS (AMP)	L @ 1.0 KHz
0	39.0uH
5	32.0uH
10	25.0uH
12	23.2uH

7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.

USING A PERMANENT MARKING METHOD  
 MARK PART NUMBER AND REVISION, IF APPLICABLE  
 6 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 0.50 INCH, FLUSH WITH THE COIL EDGE, AS SHOWN

4 WIND COILS EVENLY SPACED AROUND THE CORE  
 CONSTRUCTION:

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT  
 WEIGHT: 38.1 GRAMS TYPICAL  
 INTERWINDING CAPACITANCE = 11.9 pF TYP @ SRF  
 SRF = 7 MHz TYPICAL

|Z| = 5.38 KILO-OHMS TYP @ SRF  
 RECOMMENDED AMBIENT OPERATING TEMP: -40 °C TO 200°C  
 HI-POT TEST FOR WINDING TO CORE ISOLATION = 500 VDC 10 SEC  
 CURRENT RATING : 12.2 AMPS, 40 °C TEMP. RISE WITH SOME AIR FLOW  
 DCR = 6.0 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT  
 INDUCTANCE = 39 uH ± 15% @ 0 AMP DC BIAS, 1.0 KHz, 300mV

3 SPECIFICATIONS @ 25°C :

2 WIRE: UL RECOGNIZED 155°C RATED MAGNET WIRE  
 CORE: POWDERED TOROIDAL CORE, CWS BYTEMARK OR OTHER APPROVED PART

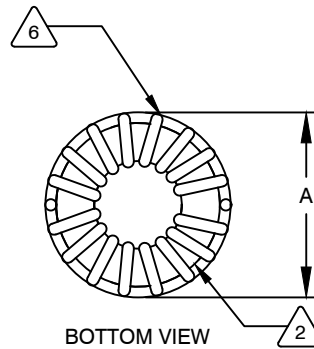
1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY, RATING CLASS B (130°C MIN.) REQUIRED

ANY TOLERANCE. THIS DIM. CAN VARY A LITTLE FROM PART TO PART.

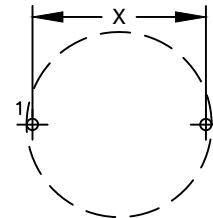
"TYP" IN DIM. TOL. TABLE REFERS TO A NON-CRITICAL TYPICAL (AVERAGE) DIM. WITHOUT

NOTES: UNLESS OTHERWISE STATED, READ NOTES FROM BOTTOM UP.

CAGE CODE: 5DME2



**BOTTOM VIEW**



**MOUNTING HOLES PATTERN**

UNLESS OTHERWISE SPECIFIED	
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M	
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].	
TOLERANCE INCHES: .XXX = ±.005 .XX = ±.015 <math>\angle = \pm 0^{\circ}30'</math>	
TOLERANCE METRICS: .XXX = ±.127 .XX = ±.38 <math>\angle = \pm 0^{\circ}30'</math>	
ANGLE PROJECTION	
DO NOT SCALE DRAWING	

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.	
<b>PARTS LIST</b>				
AUTOCAD	X	<b>COILWS COM, INC</b> www.coilws.com	CWS Coil Winding Specialist. 353 W Grove Ave Orange, CA. 92865	
SOLIDWORKS				
SIGN	DATE	TITLE: <b>TOROIDAL POWER INDUCTOR</b> 39 uH, 12.2 Amps, Horizontal		
DRAWN	KLC 10/06/2008			
CHECKED	CT 10/06/2008			
ENGR.	KLC 10/06/2008			
APPR.	KLC 10/06/2008	SIZE	DWG. NO.	REV
		B	SN270-390M-12.2AH	B1
		SCALE	2=1	SHEET 1 OF 1