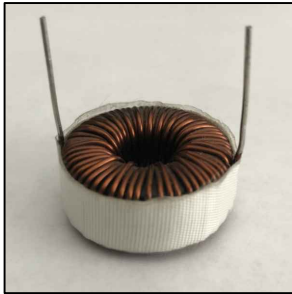
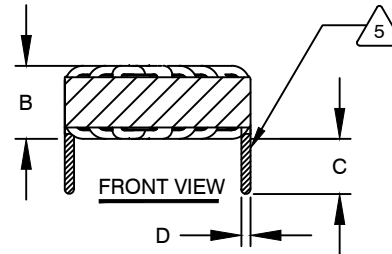


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DIMENSIONAL TOLERANCES INCHES [MM]				
A	B	C	D	X
MAX	MAX	MIN	REF	REF
1.3 [33.02]	.65 [16.51]	.50 [12.70]	.036 [0.912]	1.25 [31.75]

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	-	INITIAL RELEASE	KLC	05/01/2008	RL	05/01/2008
B	-	ELECT. AND MECH. SPECS. CHANGE	GN	08/30/2012	JL	08/30/2012
B1	-	UPDATED SPECS.	JZ	08/05/2020	JL	08/05/2020



DC BIAS TABLE

DC BIAS (AMP)	L @ 1.0 KHz
0	680.0uH
1	577.4uH
2	450.2uH
3	346.1uH
3.8	278.4uH

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: 40 GRAMS TYPICAL
INTERWINDING CAPACITANCE = 32.16 pF TYP @ SRF
SRF = 950 kHz TYPICAL
|Z| = 49.6 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 : 3.8 AMPS, 40 °C TEMP. RISE WITH SOME AIR FLOW
DCR = 83 MILLI-OHMS MAX.
INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT
INDUCTANCE = 680 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

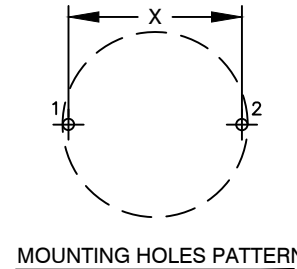
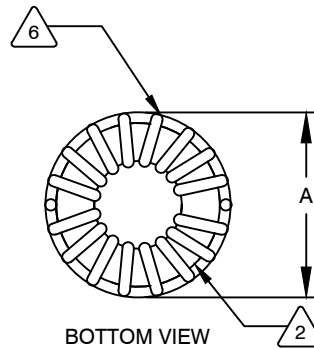
1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY, RATING CLASS B (130°C MIN.) REQUIRED

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



UNLESS OTHERWISE SPECIFIED
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].
TOLERANCE INCHES:
.XXX=±.005 .XX=±.015 $\angle = \pm 0^{\circ}30'$
TOLERANCE METRICS:
.XXX=±.127 .XX=±.38 $\angle = \pm 0^{\circ}30'$
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. 353 W Grove Ave Orange, CA. 92865	
SOLIDWORKS				
SIGN	DATE	TITLE: TOROIDAL POWER INDUCTOR 680 uH, 3.8 Amps, Horizontal		
DRAWN	KLC 05/01/2008			
CHECKED	RL 05/01/2008			
ENGR.	JL 05/01/2008			
APPR.	KLC 05/01/2008	SIZE	DWG. NO.	REV
		B	SN270-681M-3.8AH	B1
		SCALE	SHEET 1 OF 1	
		2=1		