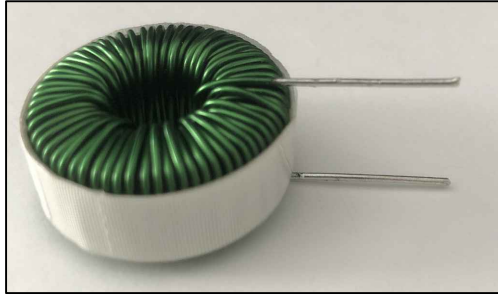
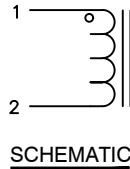


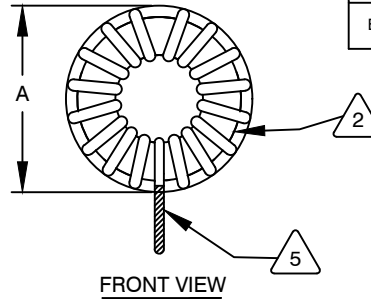
The information contained in this drawing is the sole property of CWS Coil Winding Specialist.
Any reproduction in part or whole without written permission of CWS Coil Winding Specialist is prohibited.



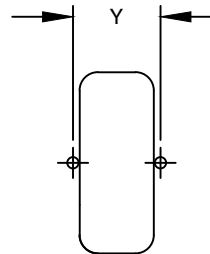
DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C MIN	D REF	Y REF
1.30 [33.02]	0.65 [16.51]	0.50 [12.70]	0.036 [0.912]	0.55 [13.97]



SCHEMATIC



FRONT VIEW



MOUNTING HOLES PATTERN

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	11/23/2021	JL	11/23/2021

7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.

USING A PERMANENT MARKING METHOD
MARK PART NUMBER AND REVISION, IF APPLICABLE,
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, AS SHOWN

4 CONSTRUCTION: WIND COILS EVENLY SPACED AROUND THE CORE

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 : 2 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 $\pm 15\%$ @ 0 AMP DC BIAS, 1.0 KHz, 300mV
3 SPECIFICATIONS: @ 25° C



WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CORE: HIGH POWDERED TOROIDAL CORE, CWS BYTE MARK OR OTHER APPROVED PART

1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY, RATING CLASS H (180°C MIN.) REQUIRED

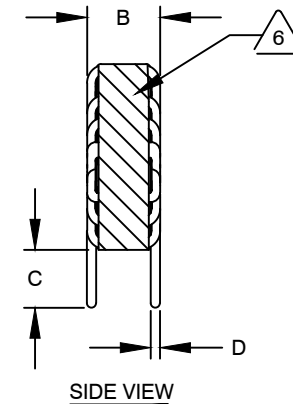
ANY TOLERANCE. THIS DIM. CAN VARY A LITTLE FROM PART TO PART.

"TYP" IN DIM. TOL. 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 $\pm$.005 .XX $\pm$.015 $\angle$ = $\pm 0^\circ 30'$	
TOLERANCE METRICS: .XXX $\pm$.127 .XX $\pm$.38 $\angle$ = $\pm 0^\circ 30'$	
ANGLE PROJECTION	
DO NOT SCALE DRAWING	



SIDE VIEW

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

CODE IDENT		MFG. P/N		DESCRIPTION		ITEM NO.	
PARTS LIST							
AUTOCAD		X		COILWS COM, INC www.coilws.com		CWS Coil Winding Specialist. 353 WEST GROVE ORANGE, CA 92865	
SOLIDWORKS							
SIGN		DATE		TITLE: TOROIDAL POWER INDUCTOR 680 uH, 3.8 Amps, Vertical			
DRAWN		KLC 05/01/2008					
CHECKED		RL 05/01/2008					
ENGR.		JL 05/01/2008					
APPR.		KLC 05/01/2008					
		SCALE		SIZE DWG. NO.		REV	
		2=1		SN270-681M-3.8AV		B1	
				SHEET 1		OF 1	