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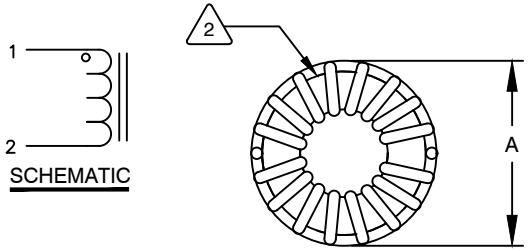
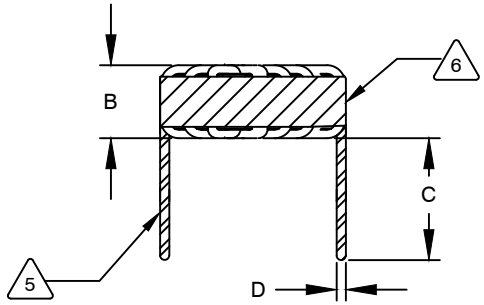
DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C MIN	D REF	X REF
0.95 [24.00]	0.47 [11.94]	0.50 [12.70]	0.04 [1.02]	0.90 [23.00]

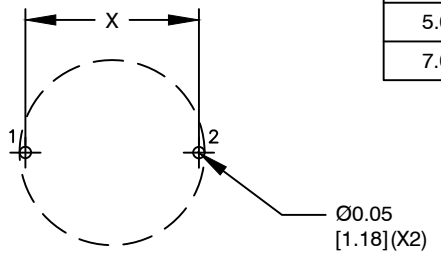
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A	—	PRODUCTION RELEASE	JL	04/14/17	JM	04/14/17
B	–	UPDATED SPEC.	TN	08/01/2020	JL	08/01/2020





DC BIAS TABLE

DC BIAS (AMP)	L@ 1KHz (REF)
0	75uH
1.0	74uH
3.0	69uH
5.0	62uH
7.0	50uH



7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.

USING A PERMANENT MARKING METHOD
MARK PART NUMBER, REVISION AND DATE CODE

△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 0.5 INCH, FLUSH WITH THE COIL EDGE

WIND COILS EVENLY SPACED AROUND THE CORE

4 CONSTRUCTION:

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: 13 GRAMS TYPICAL
INTERWINDING CAPACITANCE = 9.37pF TYP @ SRF
SRF = 6.33 MHz TYPICAL
|Z| = 3.25 KILO-OHMS TYP @ SRF
RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 155°C
HI-POT TEST FOR WINDING TO CORE ISOLATION = 500VDC MIN.
INDUCTOR CURRENT RATING : 7 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW
DCR = 65.0 MILLI-OHMS MAX.
INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT
INDUCTANCE = 77uH±15% @ 0 AMP DC BIAS, 1.0 KHz, 250mV

3 SPECIFICATIONS: @ 25°C:

△2 WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CORE: POWDERED TOROIDAL CORE, CWS BYTEMARK OR OTHER APPROVED PART

1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY, RATING CLASS N (200°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

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

AUTOCAD	X	
SOLIDWORKS		
SIGN		DATE
DRAWN	TDK	04/14/17
CHECKED	JLAU	04/14/17
ENGR.	KSUM	04/14/17
APPR.	JLAU	04/14/17

COILWS COM, INC
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CWS Coil Winding Specialist.
353 W. Grove Ave.
Orange, CA. 92865

TITLE: TOROIDAL POWER INDUCTOR
77uH, 7.0 Amps, Horizontal

SIZE B | DWG. NO. HF172-770M-7.0AH | REV B

SCALE 2=1 | SHEET 1 OF 1

CAD-FILE: