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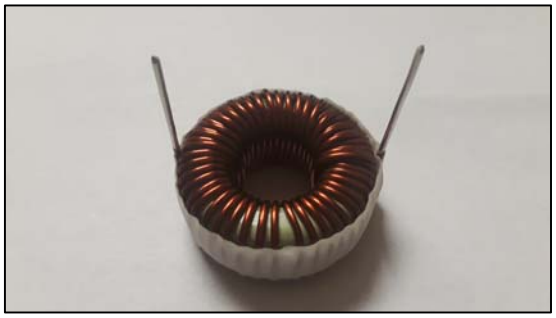
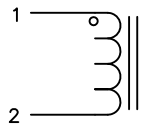
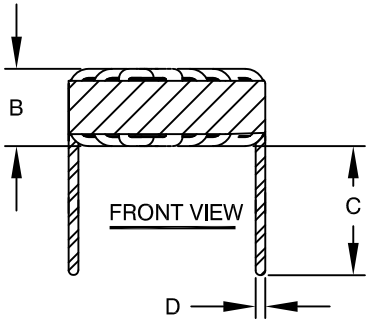


DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C MAX	D REF	X REF
1.83 [46.50]	.87 [22.20]	.75 [19.05]	.06 [1.52]	1.75 [44.45]

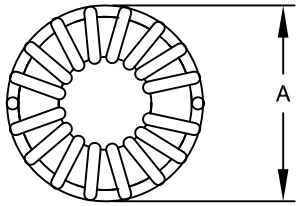
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE BY	DATE	CHK	DATE
A	—	INITIAL RELEASE	KLC	07/18/2008	RL	07/18/2008
B	–	UPDATED SPEC.	TI	06/25/2020	JL	06/25/2020



SCHEMATIC



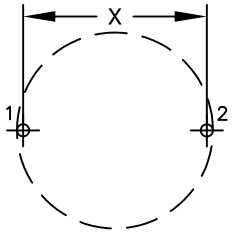
FRONT VIEW



BOTTOM VIEW

DC BIAS TABLE

DC BIAS (AMP)	L @ 1.0 KHz
0	660uH
2	630uH
4	590uH
6	530uH
8	450uH



MOUNTING HOLES PATTERN

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

WIND COILS EVENLY SPACED AROUND THE CORE

4 CONSTRUCTION:

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: 130 GRAMS TYPICAL
INTERWINDING CAPACITANCE = 50.6pF @ SRF
SRF = 879.5kHZ TYP @ SRF
|Z| = 20.3 KILO-OHMS TYP @ SRF
RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 125°C
HI-POT TEST FOR WINDING TO CORE ISOLATION = 1250 VDC 10 SEC
CURRENT RATING : 8 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW
DCR = 45 MILLI-OHMS MAX.
INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT
INDUCTANCE = 600uH±15% @ 0 AMP DC BIAS, 1.0 KHz, 300mV

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

AUTOCAD	X
SOLIDWORKS	

SIGN		DATE
DRAWN	KLC	05/06/2008
CHECKED	RL	05/06/2008
ENGR.	KLC	05/06/2008
APPR.	KLC	05/06/2008

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

COILWS COM, INC
www.coilws.com
CWS Coil Winding Specialist.
1510 E. Edinger Ave.
Unit B. Santa Ana, CA. 92705

TITLE: TOROIDAL POWER INDUCTOR
600uH, 8Amps, Horizontal

SIZE	DWG. NO.	REV
B	HF400-601M-8.0AH	B

SCALE 2=1 SHEET 1 OF 1

CAD-FILE: