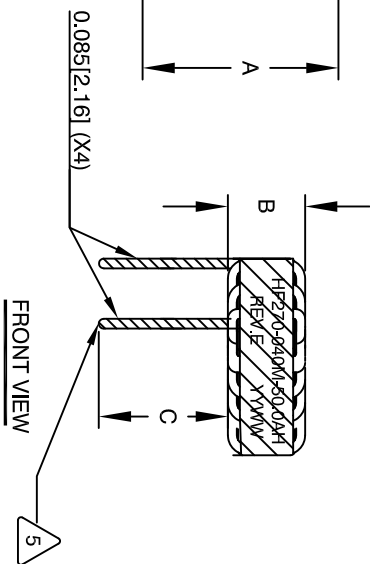
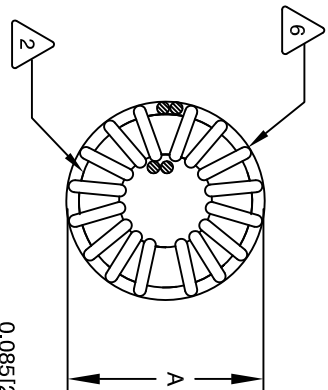
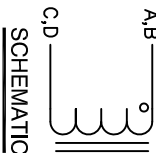


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DIMENSIONAL TOLERANCES				
INCHES (MM)				
A	B	C	D (X2)	
MAX	MAX	MIN	TYP	
1.75 [44.45]	0.75 [19.05]	1.00 [25.40]	0.072X0.10 [01.65x2.54]	

REVISION HISTORY			
REV	ECN	DESCRIPTION	SIGN & DATE
D	—	PRODUCTION RELEASE	TDK 6/14/06 JLAU 6/14/06
E	—	UPDATED SPEC.	TN 07/13/2020 JL 07/13/2020



DC BIAS TABLE

DC BIAS (AMP)	L@ 1KHz (REF)
0	4.0uH
5	4.0uH
10	3.5uH
15	3.5uH
20	3.4uH
30	3.3uH
40	3.3uH
50	3.2uH

- 5 (I.E. COIL MUST REST FLAT ON PCB). LEADS MUST BE TANGENT TO THE CORE REMOVE INSULATION AND TIN LEADS 0.75 INCH, FLUSH WITH THE COIL EDGE
- 4 WIND COILS EVENLY SPACED AROUND THE CORE CONSTRUCTION:

- 7 BUILD TO ROHS COMPLIANCE AND LEAD FREE.
- 6 USING A PERMANENT MARKING METHOD MARK PART NUMBER, REVISION AND DATE CODE WRAP INDUCTOR WITH 3M # 79 OR EQUAL
- THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT WEIGHT: 58 GRAMS TYPICAL
- SRF = GREATER THAN 10 MHZ
- RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 125°C
- HI-POT TEST FOR WINDING TO CORE ISOLATION = 1250VDC, 5 SEC.
- INDUCTOR CURRENT RATING : 50 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW
- DCR = 1.30 MILLI-OHMS MAX.
- INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT
- INDUCTANCE = 4.0uH ± 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, CMS BYTEMARK 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. TABLE REFERS TO A NON-CRITICAL TYPICAL (AVERAGE) DIM. WITHOUT NOTES: UNLESS OTHERWISE STATED, READ NOTES FROM BOTTOM UP.
- CAGE CODE: 5DME2

CODE		MFG. P/N	DESCRIPTION	ITEM
IDENT				NO.
PARTS LIST				
AUTOCAD		X		
SOLIDWORKS				
SIGN		DATE		
DRAWN		TDK	6/14/06	
CHECKED		JLAU	6/14/06	
ENGR.		KSUM	6/14/06	
APPR.		JLAU	6/14/06	
SCALE		2=1		
TITLE: TOROIDAL POWER INDUCTOR 4.0uH, 50 Amps, Horizontal				
SIZE		REV		
B		E		
HF270-040M-50.0AH				
CWS Coil Winding Specialist. 353 WEST GROVE AVENUE ORANGE, CA 92665				
COLIWS COM, INC WWW.COLIWS.COM				
UNLESS OTHERWISE SPECIFIED				
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M				
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS]				
TOLERANCE INCHES: <=+.0030' <=+.0030'				
TOLERANCE METRIC: .XX=+.015 .XX=+.015				
TOLERANCE METRIC: .XX=+.015 .XX=+.015				
ANGLE PROJECTION				
DO NOT SCALE DRAWING				