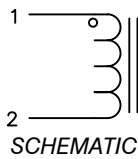


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REVISION HISTORY					
REV	ECN	DESCRIPTION	SIGN & DATE		
			BY	DATE	CHK
D		REVISED ELEC. & MECH. SPEC.	TN	06/03/2020	JL
E		UPDATED SPEC.	TN	07/13/2020	JL

8 BUILD TO ROSH COMPLIANCE
USING A PERMANENT MARKING METHOD
MARK PART NUMBER AND REVISION, IF APPLICABLE

7 WRAP INDUCTOR WITH 3M # 79 OR EQUAL
SEPARATE DEPENDING ON CUSTOMER'S REQUEST.
6 THESE 2 LEADS CAN BE SOLDERED TOGETHER OR

TO THE CORE
MUST REST FLAT ON PCB). LEADS MUST BE TANGENT
FLUSH WITH THE COIL EDGE, AS SHOWN (I.E. COIL

5 REMOVE INSULATION AND TIN LEADS 1.0 INCH
WIND COILS EVENLY SPACED AROUND THE CORE
4 CONSTRUCTION:

WEIGHT: 58 GRAMS TYP
RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 125°C
HI-POT TEST FOR WINDING TO CORE ISOLATION = 1250 VDC 5 SEC

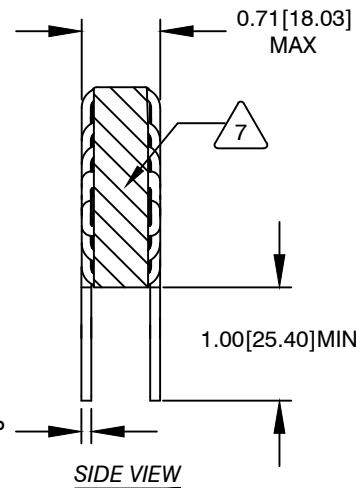
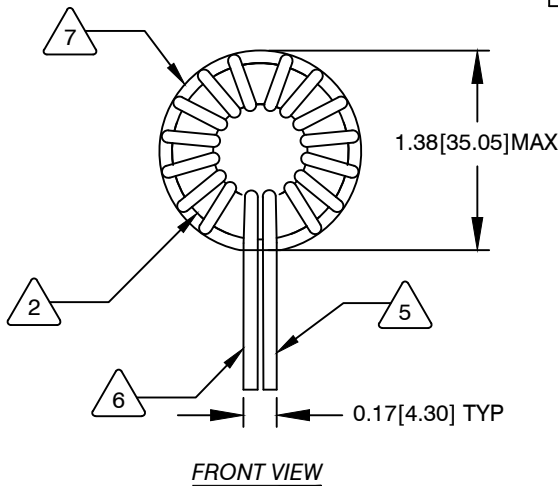
CURRENT RATING : 50 AMPS, 40 °C TEMP. RISE WITH SOME AIR FLOW
DCR = 1.30 MILLI-OHMS MAX.
INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 4.0uH±15% @ 0ADC BIAS, 1 KHz, 250mV
3 SPECIFICATIONS:

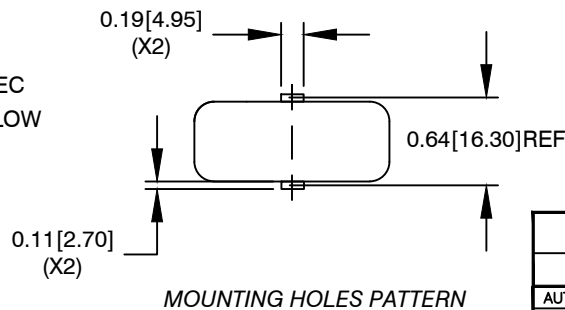
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CWS BYTEMARK OR OTHER APPROVED PART
2 CORE: POWDERED TOROIDAL CORE

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



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



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 AVENUE ORANGE CA 92865
SOLIDWORKS			
DRAWN	TDK	6/14/06	TITLE: Toroidal Power Inductor 4.0uH, 50 Amps, Vertical
CHECKED	JLAU	6/14/06	
ENGR.	KSUM	6/14/06	
APPR.	JLAU	6/14/06	
SIZE	B	DWG. NO.	HF270-040M-50AV
SCALE	2=1	REV	E
SHEET 1 OF 1			

UNLESS OTHERWISE SPECIFIED	
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M	
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].	
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 <1=±0°30'	
TOLERANCE METRICS: .XXX=±.127 .XX=±.38 <1=±0°30'	
ANGLE PROJECTION	
DO NOT SCALE DRAWING	

CAD-FILE: