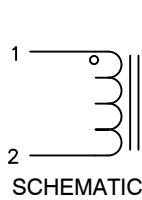
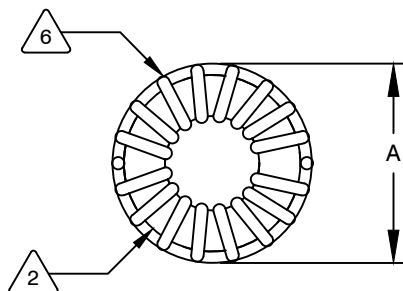


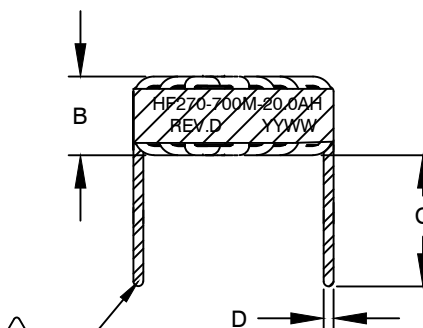
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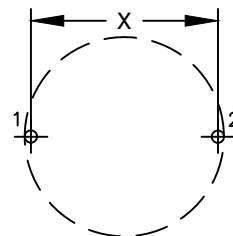
SCHEMATIC



BOTTOM VIEW



FRONT VIEW



MOUNTING HOLES PATTERN

DIMENSIONAL TOLERANCES INCHES [MM]				
A MAX	B MAX	C MIN	D TYP	X REF
1.38 [35.05]	0.79 [20.00]	0.50 [12.70]	0.072 [1.83]	1.25 [31.75]

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
C1	—	CORRECT DIMENSIONAL TOLERANCE	TN	11/10/17	JL	11/10/17
D	—	UPDATED SPEC.	TN	07/14/2020	JL	07/14/2020

7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.

USING A PERMANENT MARKING METHOD
MARK PART NUMBER, REVISION AND DATE CODE
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 0.5 INCH, FLUSH WITH THE COIL EDGE

WIND COILS EVENLY SPACED AROUND THE CORE
CONSTRUCTION:

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: 58 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 13pF TYP @ SRF

SRF = 5.2MHz TYPICAL

|Z| = 4 KILO-OHMS TYP @ SRF

RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 125°C

HI-POT TEST FOR WINDING TO CORE ISOLATION = 1250VDC, 5 SEC.

INDUCTOR CURRENT RATING : 20.0 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW

DCR = 8 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 70uH±15% @ 0 AMP DC BIAS, 1.0 KHz, 250mV

3 SPECIFICATIONS: @ 25°C:

WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CORE: 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. TABLE REFERS TO A NON-CRITICAL TYPICAL (AVERAGE) DIM. WITHOUT

NOTES: UNLESS OTHERWISE STATED, READ NOTES FROM BOTTOM UP.

CAGE CODE: 5DME2

DC BIAS TABLE

DC BIAS (AMP)	L@ 1KHz (REF)
0	70uH
5	67uH
10	60uH
15	51uH
20	40uH

CODE IDENT		MFG. P/N		DESCRIPTION		ITEM NO.			
PARTS LIST									
AUTOCAD		X		COILWS COM, INC www.coilws.com				CWS Coil Winding Specialist. 1510 E. Edinger Ave. Unit B. Santa Ana, CA. 92705	
SOLIDWORKS									
SIGN		DATE		TITLE: TOROIDAL POWER INDUCTOR 70uH, 20.0 Amps, Horizontal				REV D	
DRAWN		TDK 2/9/04							
CHECKED		JLAU 2/9/04							
ENGR.		KSUM 2/9/04							
APPR.		JLAU 2/9/04							
		SIZE		DWG. NO.					
		B				HF270-700M-20.0AH			
		SCALE		2=1				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	