

The information contained in this drawing is the sole property of CMS Coil Winding Specialist. Any reproduction in part or whole without written permission of CMS Coil Winding Specialist is prohibited.

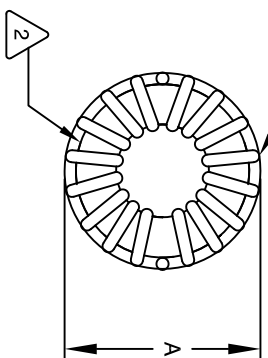
DIMENSIONAL TOLERANCES
INCHES (MM)

A	B	C	D	E	X
MAX	MAX	MIN	REF	MIN/MAX	REF
1.35 [34.29]	0.65 [16.51]	0.50 [12.70]	0.071 [1.80]	0.04-0.06 [1.00-1.50]	1.20 [30.48]

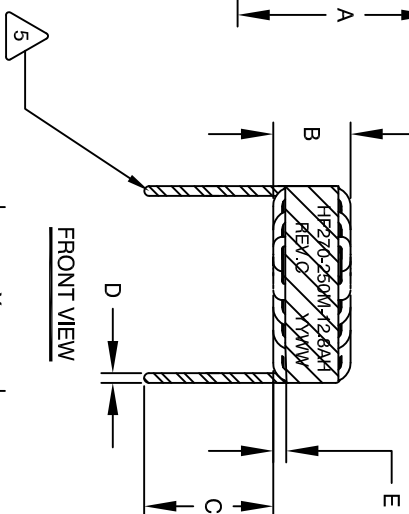
REVISION HISTORY			SIGN & DATE		
REV	ECN	DESCRIPTION	BY	DATE	CHK DATE
B	—	UPDATED TOLERANCE & RoHS	KLC	10/11/10	AK 10/1/10
C	—	UPDATED SPEC.	TN	07/14/2020	JL 07/14/2020
C1	—	REVISED DIM. X	TN	09/14/2020	JL 09/14/2020



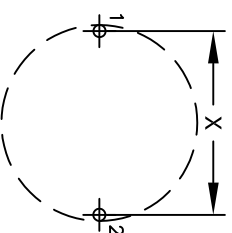
SCHEMATIC



BOTTOM VIEW



FRONT VIEW



MOUNTING HOLES PATTERN

DC BIAS TABLE	
DC BIAS (AMP)	L@ 1KHz (REF)
0	23uH
1	22uH
2	22uH
4	22uH
6	22uH
8	21uH
10	21uH
12	21uH
12.8	20uH

- BUILT 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: 50 GRAMS TYPICAL
- INTERWINDING CAPACITANCE = 9.3TYP @ SRF
- SRF = 9.3MHz TYPICAL
- |Z| = 5.8 KIL-OHMS TYP @ SRF
- RECOMMENDED AMBIENT OPERATING TEMP: -55°C TO 180°C
- HI-POT TEST FOR WINDING TO CORE ISOLATION = 1250VDC, 5 SEC.
- INDUCTOR CURRENT RATING : 12.8 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW
- DCR = 7 MILLI-OHMS MAX.
- INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT
- INDUCTANCE = 25uH ±15% @ 0 AMP DC BIAS, 1.0 KHz, 250mV
- SPECIFICATIONS: @ 25°C:
- 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: 5DMEZ

CODE IDENT		MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST				
AUTOCAD		X		
SOLIDWORKS				
SIGN		DATE		
DRAWN		TOK	2/8/04	
CHECKED		JLAU	2/8/04	
ENGR.		KSUM	2/8/04	
APPR.		JLAU	2/8/04	
SIZE		DWG. NO.		
B		HF270-250M-12.8AH	REV C1	
SCALE		2=1	SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED	
DIMENSIONING AND TOLERANCES PER ANSI Y14.5M	
ALL DIMENSIONS ARE IN INCHES	
AND (MILLIMETERS).	
TOLERANCE INCHES: $\begin{matrix} \text{XXX} \pm .005 \\ \text{XX} \pm .015 \\ \text{X} \pm .030 \end{matrix}$	
TOLERANCE METRICS: $\begin{matrix} \text{XXX} \pm .127 \\ \text{XX} \pm .38 \\ \text{X} \pm .80 \end{matrix}$	
ANGLE PROJECTION 	
DO NOT SCALE DRAWING	