

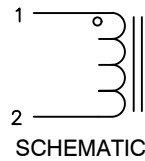
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DIMENSIONAL TOLERANCES  
INCHES [MM]

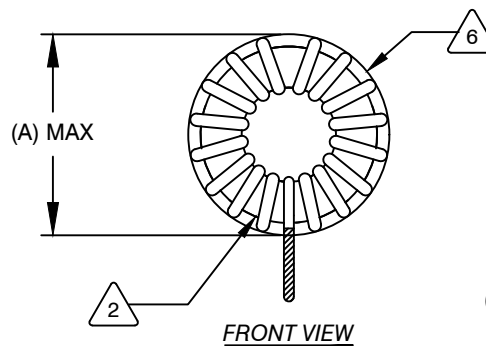
| A<br>MAX        | B<br>MAX        | C<br>MIN        | D<br>REF       | X<br>REF        |
|-----------------|-----------------|-----------------|----------------|-----------------|
| 1.30<br>[33.02] | 0.65<br>[16.51] | 0.75<br>[19.05] | 0.03<br>[0.71] | 0.60<br>[15.24] |

REVISION HISTORY

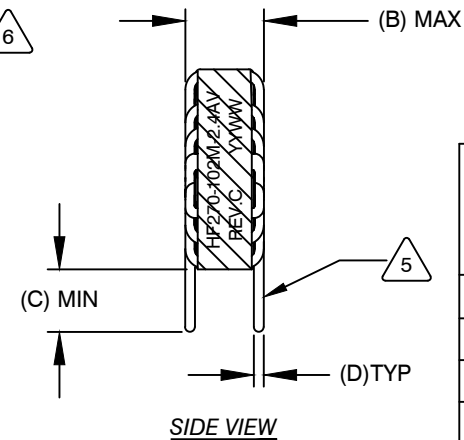
| REV | ECN | DESCRIPTION   | SIGN & DATE |            |      |            |
|-----|-----|---------------|-------------|------------|------|------------|
|     |     |               | BY          | DATE       | CHK  | DATE       |
| B   | —   | UPDATED SPEC. | TDK         | 4/6/04     | JLAU | 4/6/04     |
| C   | —   | UPDATED SPEC. | TN          | 07/16/2020 | JL   | 07/16/2020 |



SCHEMATIC



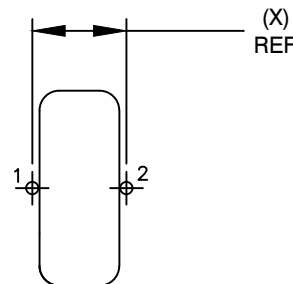
FRONT VIEW



SIDE VIEW

DC BIAS TABLE

| DC<br>BIAS<br>(AMP) | L@ 1KHz<br>(REF) |
|---------------------|------------------|
| 0                   | 950uH            |
| 1                   | 923uH            |
| 2                   | 890uH            |
| 2.4                 | 880uH            |



MOUNTING HOLES PATTERN

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 0.75 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 = 75pF TYP @ SRF  
SRF = 592 KHz TYP  
|Z| = 74 KILO-OHMS TYP @ SRF  
RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 155°C  
HI-POT TEST FOR WINDING TO CORE ISOLATION = 500VDC MIN.  
CURRENT RATING : 2.4 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW  
DCR = 235.0 MILLI-OHMS MAX.  
INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT  
INDUCTANCE = 1000uH±10% @ 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 B (130°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    |          | COILWS COM, INC<br>www.coilws.com                                                    |          |                  |       |
| SOLIDWORKS |      |          |                                                                                      |          |                  |       |
| SIGN       |      | DATE     | CWS Coil Winding Specialist.<br>1510 E. Edinger Ave.<br>Unit B. Santa Ana, CA. 92705 |          |                  |       |
| DRAWN      | TDK  | 2/8/04   | TITLE: TOROIDAL POWER INDUCTOR<br>1000uH, 2.4 Amps, Vertical                         |          |                  |       |
| CHECKED    | JLAU | 2/9/04   |                                                                                      |          |                  |       |
| ENGR.      | KSUM | 3/5/04   |                                                                                      |          |                  |       |
| APPR.      | JLAU | 3/6/04   | SIZE B                                                                               | DWG. NO. | HF270-102M-2.4AV | REV C |
|            |      |          | SCALE 2=1                                                                            |          | SHEET 1 OF 1     |       |

CAD-FILE: