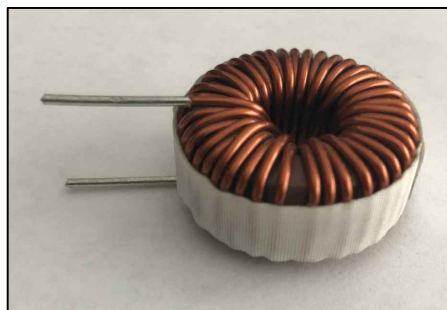
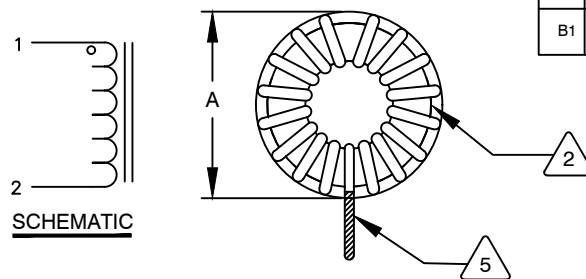


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| DIMENSIONAL TOLERANCES<br>INCHES [MM] |                 |                 |                |                  |
|---------------------------------------|-----------------|-----------------|----------------|------------------|
| A<br>MAX                              | B<br>MAX        | C<br>MIN        | D<br>REF       | Y<br>REF         |
| 1.300<br>[33.02]                      | .700<br>[17.78] | .500<br>[12.70] | .051<br>[1.30] | 0.600<br>[15.24] |



| REVISION HISTORY |     |                       |             |            |     |            |
|------------------|-----|-----------------------|-------------|------------|-----|------------|
| REV              | ECN | DESCRIPTION           | SIGN & DATE |            |     |            |
|                  |     |                       | BY          | DATE       | CHK | DATE       |
| A                | —   | INITIAL RELEASE       | KLC         | 01/29/2010 | AK  | 01/29/2010 |
| B                | —   | CHANGE TO 10 AMP & PN | KLC         | 10/01/2010 | AK  | 10/01/2010 |
| B1               | —   | UPDATED SPECS.        | JZ          | 08/05/2020 | JL  | 08/05/2020 |

7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.

USING A PERMANENT MARKING METHOD  
MARK PART NUMBER AND REVISION, IF APPLICABLE,  
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 0.50 INCH, FLUSH WITH THE COIL EDGE, AS SHOWN

4 CONSTRUCTION: WIND COILS EVENLY SPACED AROUND THE CORE

WEIGHT: 47 GRAMS TYPICAL  
INTERWINDING CAPACITANCE = 27.98 pF TYP @ SRF  
SRF = 2.67 MHz TYPICAL  
 $|Z| = 9.4$  KILO-OHMS TYP @ SRF  
RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 200°C  
HI-POT TEST FOR WINDING TO CORE ISOLATION = 1250 VDC 10 SEC  
CURRENT RATING : 10 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW  
DCR = 23.0 MILLI-OHMS MAX.  
INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT  
INDUCTANCE = 120 uH  $\pm 15\%$  @ 0 AMP DC BIAS, 1.0 KHz, 300mV  
3 SPECIFICATIONS: @ 25° C



WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE  
CORE: HIGH POWDERED TOROIDAL CORE, CWS BYTE MARK OR OTHER APPROVED PART

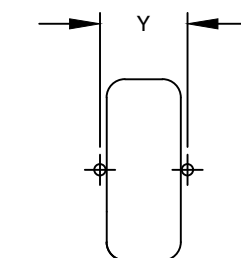
1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY, RATING CLASS H (180°C MIN.) REQUIRED

ANY TOLERANCE. THIS DIM. CAN VARY A LITTLE FROM PART TO PART.

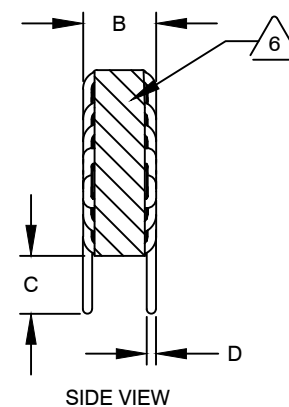
"TYP" IN DIM. TOL. REFERS TO A NON-CRITICAL TYPICAL (AVERAGE) DIM. WITHOUT

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

CAGE CODE: 5DME2



MOUNTING HOLES PATTERN



DC BIAS TABLE

| DC<br>BIAS<br>(AMP) | L @<br>1.0 KHz |
|---------------------|----------------|
| 0                   | 130uH          |
| 1                   | 128uH          |
| 3                   | 124uH          |
| 8                   | 112uH          |
| 10                  | 105uH          |

| UNLESS OTHERWISE SPECIFIED                                                        |  |
|-----------------------------------------------------------------------------------|--|
| DIMENSIONING AND TOLERANCE PER ANSI Y14.5M                                        |  |
| ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].                                   |  |
| TOLERANCE INCHES:<br>.XXX $\pm$ .005 .XX $\pm$ .015 $\angle$ = $\pm 0^{\circ}30'$ |  |
| TOLERANCE METRICS:<br>.XXX $\pm$ .127 .XX $\pm$ .38 $\angle$ = $\pm 0^{\circ}30'$ |  |
| ANGLE PROJECTION                                                                  |  |
| DO NOT SCALE DRAWING                                                              |  |

|            |  |                |          |                                                             |             |                                                                    |             |  |
|------------|--|----------------|----------|-------------------------------------------------------------|-------------|--------------------------------------------------------------------|-------------|--|
|            |  | CODE<br>IDENT  | MFG. P/N |                                                             | DESCRIPTION |                                                                    | ITEM<br>NO. |  |
| PARTS LIST |  |                |          |                                                             |             |                                                                    |             |  |
| AUTOCAD    |  | X              |          | COILWS COM, INC<br>www.coilws.com                           |             | CWS Coil Winding Specialist.<br>353 WEST GROVE<br>ORANGE, CA 92865 |             |  |
| SOLIDWORKS |  |                |          |                                                             |             |                                                                    |             |  |
| SIGN       |  | DATE           |          | TITLE: TOROIDAL POWER INDUCTOR<br>120 uH, 10 Amps, Vertical |             |                                                                    |             |  |
| DRAWN      |  | KLC 01/29/2010 |          |                                                             |             |                                                                    |             |  |
| CHECKED    |  | AK 01/29/2010  |          |                                                             |             |                                                                    |             |  |
| ENGR.      |  | KLC 01/29/2010 |          |                                                             |             |                                                                    |             |  |
| APPR.      |  | KLC 01/29/2010 |          | SIZE DWG. NO.                                               |             | REV                                                                |             |  |
|            |  |                |          | B MF270-121M-10AV                                           |             | B1                                                                 |             |  |
|            |  |                |          | SCALE 2=1                                                   |             | SHEET 1 OF 1                                                       |             |  |