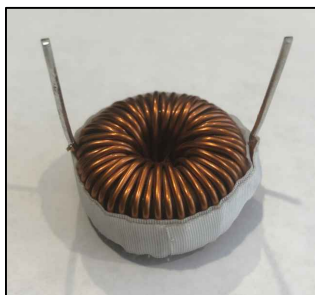
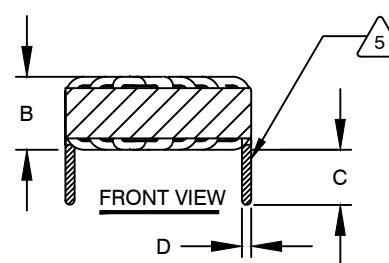
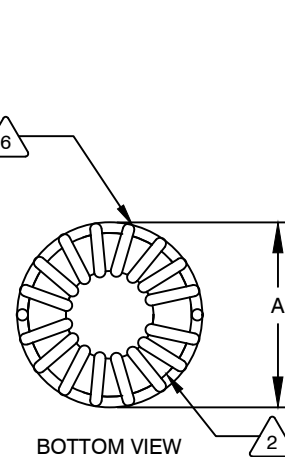
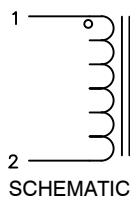


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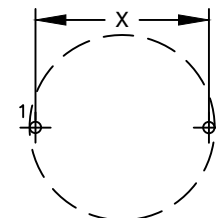
| DIMENSIONAL TOLERANCES<br>INCHES [MM] |                 |                 |                |                  |
|---------------------------------------|-----------------|-----------------|----------------|------------------|
| A<br>MAX                              | B<br>MAX        | C<br>MIN        | D<br>REF       | X<br>REF         |
| 1.350<br>[34.29]                      | .700<br>[17.78] | .500<br>[12.70] | .051<br>[1.30] | 1.200<br>[30.48] |

| REVISION HISTORY |     |                 |             |            |     |            |
|------------------|-----|-----------------|-------------|------------|-----|------------|
| REV              | ECN | DESCRIPTION     | SIGN & DATE |            |     |            |
|                  |     |                 | BY          | DATE       | CHK | DATE       |
| A                | —   | INITIAL RELEASE | KLC         | 10/01/2010 | AK  | 10/01/2010 |
| A1               | —   | UPDATED SPECS.  | JZ          | 08/08/2020 | JL  | 08/08/2020 |



DC BIAS TABLE

| DC<br>BIAS<br>(AMP) | L @<br>1.0 KHz |
|---------------------|----------------|
| 0                   | 184uH          |
| 1                   | 178uH          |
| 3                   | 173uH          |
| 6                   | 162uH          |
| 9                   | 143uH          |



MOUNTING HOLES PATTERN

- 7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.  
USING A PERMANENT MARKING METHOD  
MARK PART NUMBER AND REVISION, IF APPLICABLE
- 6 WRAP INDUCTOR WITH 3M # 79 OR EQUAL
- 5 (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 WIND COILS EVENLY SPACED AROUND THE CORE  
CONSTRUCTION:  
THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT  
WEIGHT: 53 GRAMS TYPICAL  
INTERWINDING CAPACITANCE = 26.91 pF TYP @ SRF  
SRF = 2.30 MHz TYPICAL  
|Z| = 10.95 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 : 9 AMPS, 40 °C TEMP. RISE WITH SOME AIR FLOW  
DCR = 35.0 MILLI-OHMS MAX.  
INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT  
INDUCTANCE = 180 uH ± 15% @ 0 AMP DC BIAS, 1.0 KHz, 300mV
- 3 SPECIFICATIONS @ 25°C :
- 2 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

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

|            |  |          |            |                                                              |  |                                                                      |  |
|------------|--|----------|------------|--------------------------------------------------------------|--|----------------------------------------------------------------------|--|
| CODE IDENT |  | MFG. P/N |            | DESCRIPTION                                                  |  | ITEM NO.                                                             |  |
| PARTS LIST |  |          |            |                                                              |  |                                                                      |  |
| AUTOCAD    |  | X        |            | COILWS COM, INC<br>www.coilws.com                            |  | CWS Coil Winding Specialist.<br>353 W Grove Ave<br>Orange, CA. 92865 |  |
| SOLIDWORKS |  |          |            |                                                              |  |                                                                      |  |
| SIGN       |  | DATE     |            |                                                              |  |                                                                      |  |
| DRAWN      |  | KLC      | 10/01/2010 | TITLE: TOROIDAL POWER INDUCTOR<br>180 uH, 9 Amps, Horizontal |  |                                                                      |  |
| CHECKED    |  | AK       | 10/01/2010 |                                                              |  |                                                                      |  |
| ENGR.      |  | KLC      | 10/01/2010 |                                                              |  |                                                                      |  |
| APPR.      |  | KLC      | 10/01/2010 |                                                              |  |                                                                      |  |
|            |  |          |            | SIZE DWG. NO.                                                |  | REV                                                                  |  |
|            |  | B        |            | MF270-181M-9AH                                               |  | A1                                                                   |  |
|            |  | SCALE    |            | 2=1                                                          |  | SHEET 1 OF 1                                                         |  |