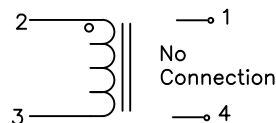


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SCHEMATIC

**DIMENSIONAL TOLERANCES  
INCHES [MM]**

| A<br>MAX        | B<br>MAX        | B1<br>MAX       | C<br>MIN       | D<br>REF       | D1<br>REF      | X<br>REF        | Y<br>REF        |
|-----------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|
| 1.58<br>[40.00] | 1.40<br>[35.56] | 0.90<br>[22.86] | 0.21<br>[5.30] | 0.05<br>[1.29] | 0.05<br>[1.27] | 1.20<br>[30.48] | 0.70<br>[17.78] |

**REVISION HISTORY**

| REV | ECN | DESCRIPTION     | SIGN & DATE |            |      |            |
|-----|-----|-----------------|-------------|------------|------|------------|
|     |     |                 | BY          | DATE       | CHK  | DATE       |
| A   | —   | INITIAL RELEASE | RLU         | 04/27/2005 | JLAU | 04/27/2005 |
| A1  | —   | UPDATED SPECS.  | JZ          | 09/27/2020 | JL   | 09/27/2020 |

7 BUILD TO RoHS COMPLIANCE AND LEAD FREE.

USING A PERMANENT MARKING METHOD

MARK PART NUMBER AND REVISION, IF APPLICABLE,

EPOXY COIL TO HEADER



REMOVE INSULATION AND TIN LEADS 0.21 INCH, FLUSH WITH THE HEADER EDGE, AS SHOWN

4 CONSTRUCTION: WIND COILS EVENLY SPACED AROUND THE CORE

WEIGHT: 71 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 37.75 pF TYP @ SRF

SRF = 1.62 MHz TYPICAL

|Z| = 8.87 KILO-OHMS TYP @ SRF

RECOMMENDED AMBIENT OPERATING TEMP: -40°C TO 130°C

HI-POT TEST FOR WINDING TO CORE ISOLATION = 500 VDC 10 SEC

CURRENT RATING : 4.9 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW

DCR = 38.0 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 257 uH ± 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 BYTEMARK OR OTHER APPROVED PART

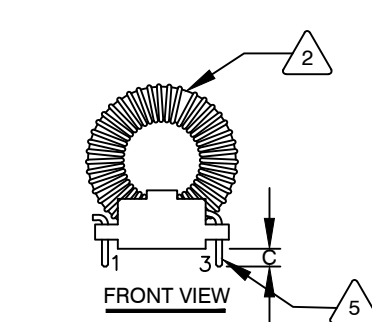
1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY, RATING CLASS F (180°C MIN.) REQUIRED

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

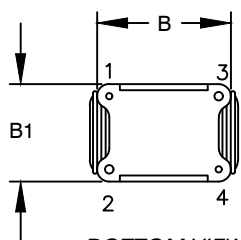
"TYP" IN DIM. TOL. REFERS TO A NON-CRITICAL TYPICAL (AVERAGE) DIM. WITHOUT

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

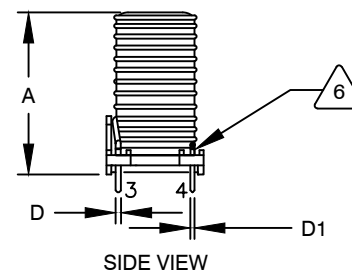
CAGE CODE: 5DME2



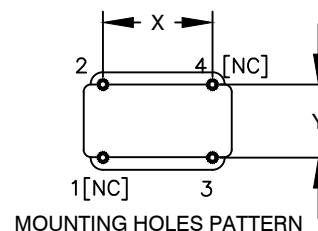
FRONT VIEW



BOTTOM VIEW



SIDE VIEW



MOUNTING HOLES PATTERN

**DC BIAS TABLE**

| DC<br>BIAS<br>(AMP) | L @<br>1.0 KHz |
|---------------------|----------------|
| 0.0                 | 252uH          |
| 0.3                 | 240uH          |
| 1.5                 | 237uH          |
| 2.7                 | 212uH          |
| 3.8                 | 193uH          |
| 4.9                 | 171uH          |

NC = NO CONNECTION

| CODE IDENT |  | MFG. P/N         | DESCRIPTION |                                                                                              | ITEM NO. |
|------------|--|------------------|-------------|----------------------------------------------------------------------------------------------|----------|
| PARTS LIST |  |                  |             |                                                                                              |          |
| AUTOCAD    |  | X                |             | <b>COILWS COM, INC</b><br>CWS Coil Winding Specialist.<br>353 WEST GROVE<br>ORANGE, CA 92865 |          |
| SOLIDWORKS |  |                  |             |                                                                                              |          |
| SIGN       |  | DATE             |             | <b>TITLE:</b><br>OUTPUT CHOKE<br>257 uH, 4.9 Amps, Horizontal                                |          |
| DRAWN      |  | RLU 04/27/2005   |             |                                                                                              |          |
| CHECKED    |  | JLAU 04/27/2005  |             |                                                                                              |          |
| ENGR.      |  | JLAU 04/27/2005  |             |                                                                                              |          |
| APPR.      |  | KKSUM 04/27/2005 |             |                                                                                              |          |
|            |  | SIZE             |             | DWG. NO.                                                                                     |          |
|            |  | B                |             | OPC-3-257-4.9                                                                                |          |
|            |  | 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 <1/16±.030                   |  |
| TOLERANCE METRICS:                              |  |
| .XXX±.127 .XX±.38 <1/16±.030                    |  |
| ANGLE PROJECTION                                |  |
| DO NOT SCALE DRAWING                            |  |