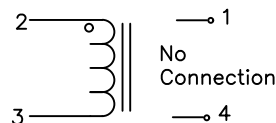


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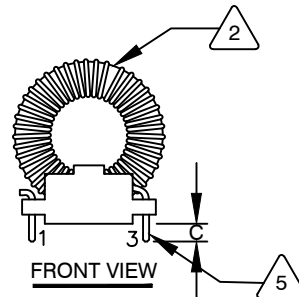


| DIMENSIONAL TOLERANCES<br>INCHES [MM] |                 |                 |                |                |                |                 |                 |
|---------------------------------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|
| A<br>MAX                              | B<br>MAX        | B1<br>MAX       | C<br>MIN       | D<br>REF       | D1<br>REF      | X<br>REF        | Y<br>REF        |
| 1.41<br>[35.60]                       | 1.10<br>[27.94] | 0.80<br>[20.32] | 0.21<br>[5.30] | 0.05<br>[1.29] | 0.05<br>[1.29] | 0.90<br>[22.86] | 0.60<br>[15.24] |

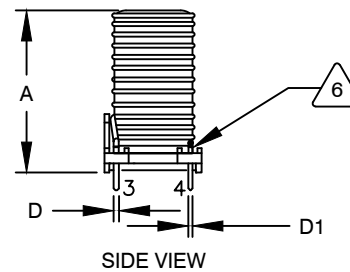
| REVISION HISTORY |     |                 |             |            |      |            |
|------------------|-----|-----------------|-------------|------------|------|------------|
| REV              | ECN | DESCRIPTION     | SIGN & DATE |            |      |            |
|                  |     |                 | BY          | DATE       | CHK  | DATE       |
| A                | —   | INITIAL RELEASE | RLU         | 02/11/2005 | JLAU | 02/11/2005 |
| A1               | —   | UPDATED SPECS.  | JZ          | 03/10/2021 | JL   | 03/10/2021 |



SCHEMATIC



FRONT VIEW

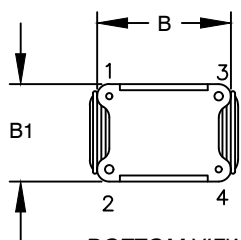


SIDE VIEW

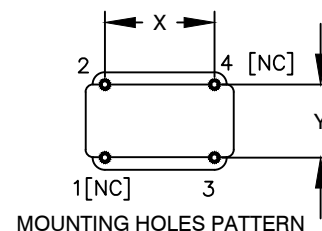
DC BIAS TABLE

| DC<br>BIAS<br>(AMP) | L @<br>1.0 KHz |
|---------------------|----------------|
| 0                   | 49uH           |
| 2                   | 48uH           |
| 4                   | 45uH           |
| 6                   | 40uH           |
| 8                   | 36uH           |

NC = NO CONNECTION



BOTTOM VIEW



MOUNTING HOLES PATTERN

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: 43 GRAMS TYPICAL

INTERWINDING CAPACITANCE = 3.69 pF TYP @ SRF

SRF = 9.47 MHz TYPICAL

|Z| = 2.79 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 : 8 AMPS, 40°C TEMP. RISE WITH SOME AIR FLOW

DCR = 13.2 MILLI-OHMS MAX.

INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT

INDUCTANCE = 49 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

| UNLESS OTHERWISE SPECIFIED                      |  |
|-------------------------------------------------|--|
| DIMENSIONING AND TOLERANCE PER ANSI Y14.5M      |  |
| ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS]. |  |
| TOLERANCE INCHES:                               |  |
| .XXX = ±.005 .XX = ±.015 <X = ±0°30'            |  |
| TOLERANCE METRICS:                              |  |
| .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                |  | CWS Coil Winding Specialist.<br>353 WEST GROVE<br>ORANGE, CA 92865 |  |              |  |
| SOLIDWORKS |  |                  |  |                                                                    |  |              |  |
| SIGN       |  | DATE             |  | COILWS COM, INC<br>www.coilws.com                                  |  |              |  |
| DRAWN      |  | RLU 02/11/2005   |  | TITLE: OUTPUT CHOKE<br>49 uH, 8 Amps, Horizontal                   |  |              |  |
| CHECKED    |  | JLAU 02/11/2005  |  |                                                                    |  |              |  |
| ENGR.      |  | JLAU 02/11/2005  |  |                                                                    |  |              |  |
| APPR.      |  | KKSUM 02/11/2005 |  | SIZE DWG. NO.                                                      |  | REV          |  |
|            |  |                  |  | B OPC-2-49-8                                                       |  | A1           |  |
|            |  |                  |  | SCALE 2=1                                                          |  | SHEET 1 OF 1 |  |