






# RF TRANSFORMER

## For Wideband RF Applications



-  For single-ended to balanced applications
-  Value-oriented construction
-  Small surface mount package
-  Excellent insertion loss
-  Various impedance ratios available

### Electrical Specifications @ 25°C

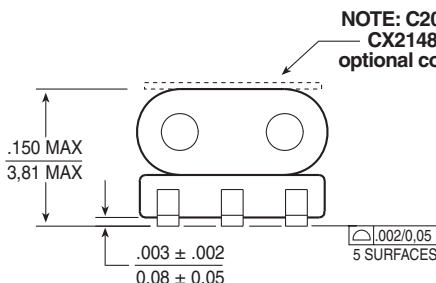
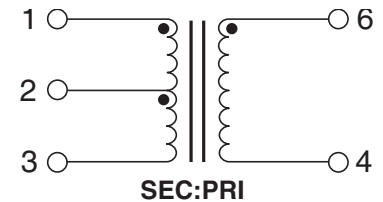
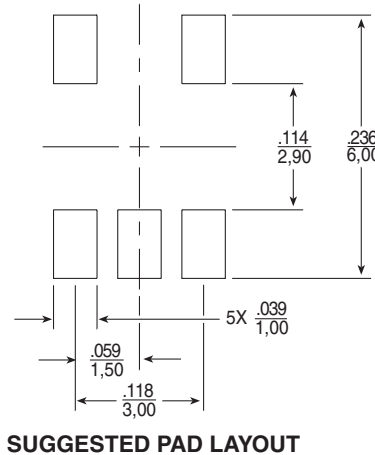
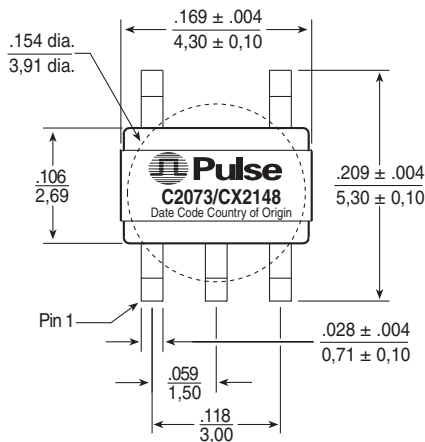
| Standard Part Number | RoHS-6 Compliant Part No. | Impedance Ratio <sup>1</sup><br>Pri:Sec (±2%) | Turns Ratio <sup>1</sup><br>Pri:Sec (±2%) | Insertion Loss <sup>2</sup><br>(dB TYP/MAX) |            | Amplitude Balance <sup>2</sup><br>(dB TYP/MAX) |            | Phase Balance <sup>2</sup><br>(degrees TYP/MAX) |            | Return Loss<br>(dB TYP/MIN) |            |
|----------------------|---------------------------|---|---|---|------------|--|------------|---|------------|-----------------------------|------------|
|                      |                           |   |   | 5-65MHz:                                    | 65-200MHz: | 5-65MHz:                                       | 65-200MHz: | 5-65MHz:  | 65-200MHz: | 5-65MHz:                    | 65-200MHz: |
| C2073                | C2073NL                   | 1:4CT   | 1:2CT                                     | 5-65MHz:                                    | 65-200MHz: | 5-65MHz:                                       | 65-200MHz: | 5-65MHz:  | 65-200MHz: | 5-65MHz:                    | 65-200MHz: |
| C2073A               | C2073ANL                  |   |   | 0.50/0.70                                   | 0.80/1.20  | 0.01/0.02                                      | 0.02/0.05  | 0.4/2.0   | 2.0/5.0    | 20/15                       | 13/7.0     |
| CX2148               | CX2148NL                  | 1:1CT   | 1:1CT                                     | 5-50 MHz:                                   |            | 5-50 MHz:                                      |            | 5-50 MHz:                                       |            | 5-50 MHz:                   |            |
| CX2148A              | CX2148ANL                 |   |   | 0.50dB MAX                                  |            | 0.10dB MAX                                     |            | 2° MAX  |            | 20dB MIN                    |            |

NOTE: Part with cover plate is designated C2073A or CX2148A. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (ex: C2073T, C2073AT or C2073NLT).

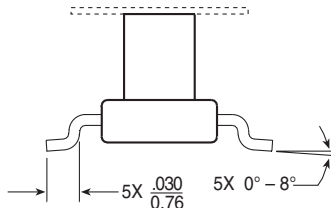
### Mechanical

### Schematic

#### C2073/CX2148



NOTE: C2073A and CX2148A has optional cover plate



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$

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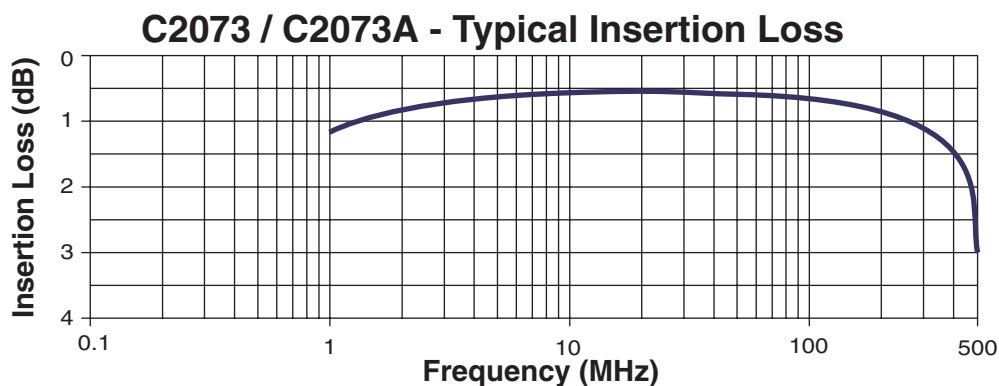


### Application Notes

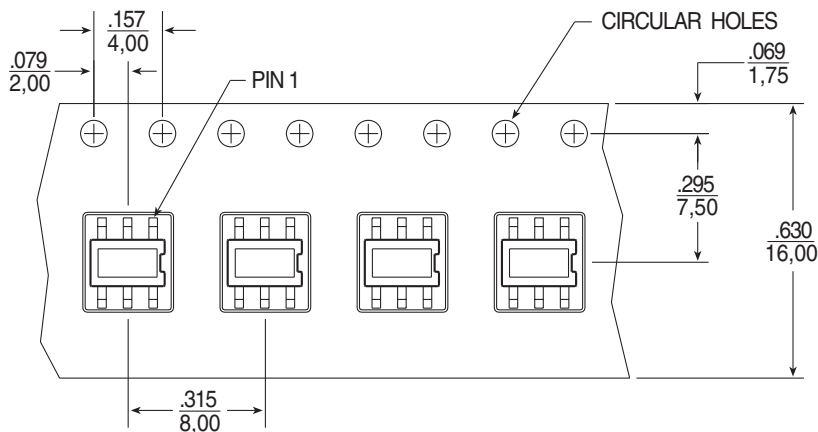
- A. Materials used in the products are UL94-V0 recognized. Products meet requirements of IEC 695-2-2 (Needle Flame Test).
- B. For additional impedance ratios and frequency ranges, please contact Applications Engineering.
- C. For performance plots of **CX2148** and **CX2148A**, please contact Applications Engineering.

### Notes from Tables

1. Impedance and turns ratios are specified primary:secondary. (CT=Center Tap).
2. For **CX2148** and **CX2148A**, Insertion Loss, Amplitude Balance and Phase Balance are measured on balanced side (secondary output pins 1 and 3) relative to ground pin (pin 2).



### Tape and Reel Information



Weight . . . . . 0.43 grams  
 Tape & Reel . . . . . 2000 /reel  
 Tray . . . . . 100 /tray

USER DIRECTION OF FEED  
 QTY: 2200 PCS / REEL

### For More Information:

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|--|--|---|--|---|---|--|
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