

# 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

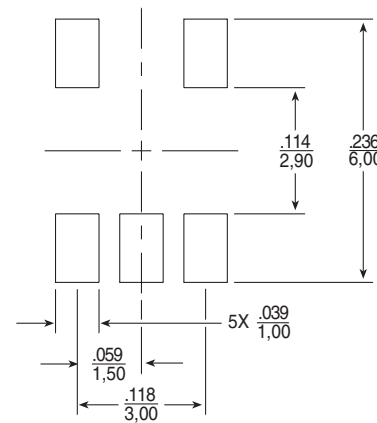
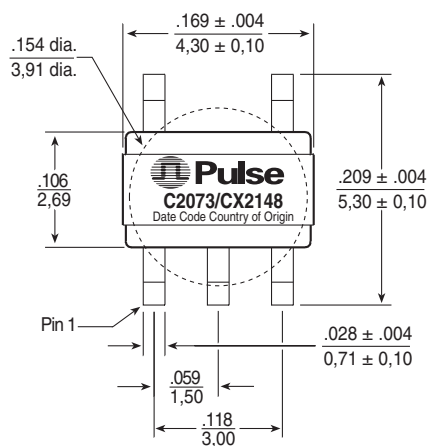
| Part No. | Impedance Ratio <sup>1</sup><br>Pri:Sec (±2%) | Turns Ratio <sup>1</sup><br>Pri:Sec (±2%) | Insertion Loss <sup>2</sup><br>(dB TYP/MAX) |                          | Amplitude Balance <sup>2</sup><br>(dB TYP/MAX) |                          | Phase Balance <sup>2</sup><br>(degrees TYP/MAX)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

**NOTE:** Optional cover plate is available for both parts. 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 or C2073AT).

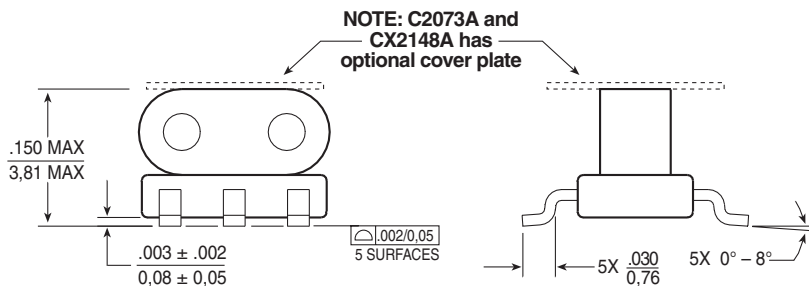
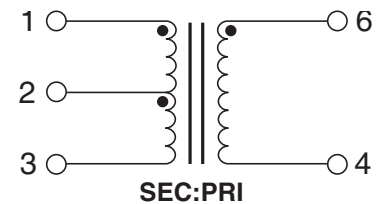
### Mechanical

### Schematic

#### C2073/CX2148



SUGGESTED PAD LAYOUT



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).

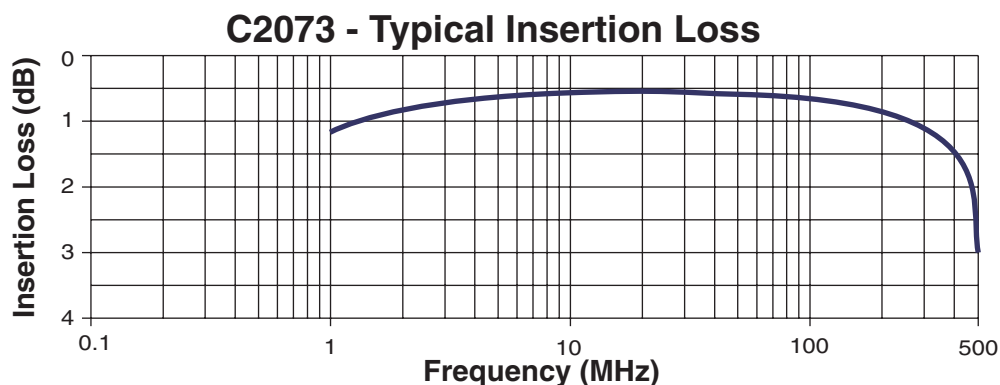
B. For additional impedance ratios and frequency ranges, please contact Applications Engineering.

C. For performance plots of **CX2148**, please contact Applications Engineering.

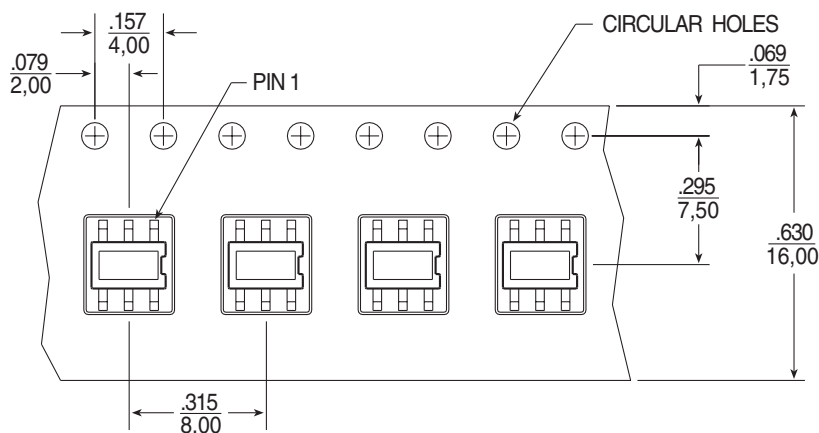
### Notes from Tables

1. Impedance and turns ratios are specified primary:secondary. (CT=Center Tap).

2. For **CX2148**, 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

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