

# RF TRANSFORMER

## Low Profile Transformer for Wideband RF Applications



- Ⓜ Miniature surface mount package
- Ⓜ Under .098" tall; meets PCMCIA requirements
- Ⓜ Excellent insertion loss

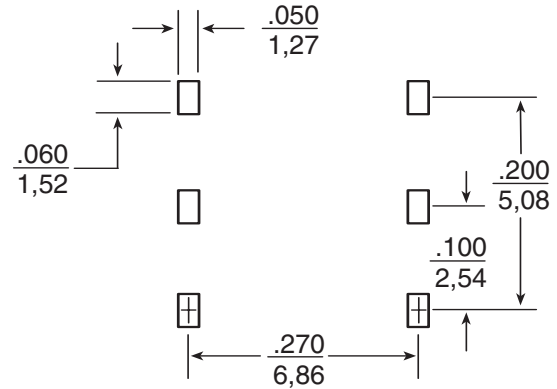
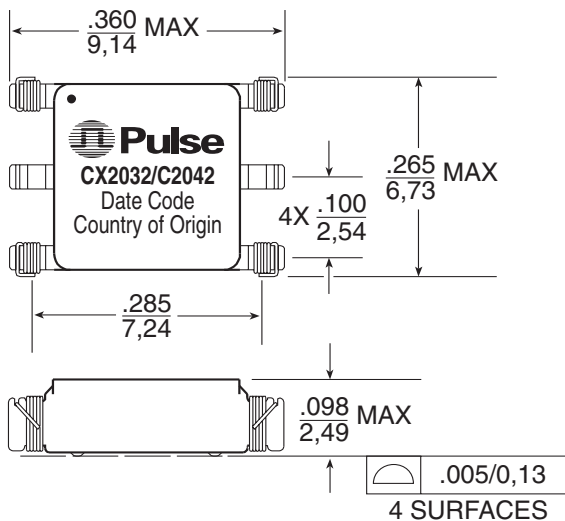
### Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

| Part Number | Impedance Ratio <sup>1</sup><br>Pri:Sec<br>(±2%) | Turns Ratio <sup>1</sup><br>Pri:Sec<br>(±2%) | Bandwidth <sup>2,3</sup><br>(MHz TYP) |         |        |        | Insertion Loss<br>@ Midband<br>(dB) |
|-------------|--|--|---------------------------------------|---------|--------|--------|-------------------------------------|
|             |  |  | 3 dB                                  | 2 dB    | 1 dB   | 0.5 dB |                                     |
| CX2032      | 1:4CT  | 1:2CT  | —                                     | —       | —      | 5-165  | 0.6                                 |
| C2042       | 1CT:1CT  | 1CT:1CT                                      | 0.3-300                               | 0.4-200 | 0.5-90 | —      | 0.6 MAX                             |

NOTE: Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (ex: CX2042T).

## Mechanicals

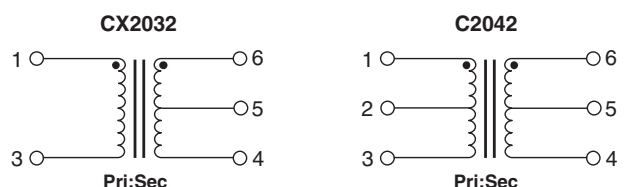
### CX2032/C2042



SUGGESTED PAD LAYOUT

## Schematics

Weight . . . . .0.17 grams  
 Tape & Reel . . . . .1500 /reel  
 Tube . . . . .60 /tube  
 Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$



# RF TRANSFORMER

## Low Profile Transformer for Wideband RF Applications



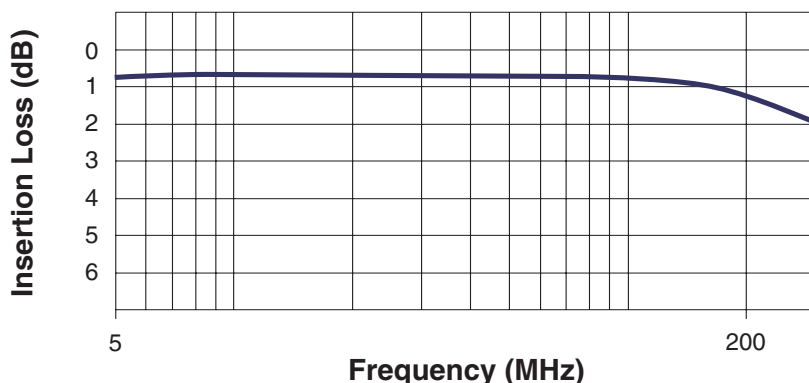
### Application Notes

- A. Bandwidth specifications are typical in a 75  $\Omega$  system.
- B. Materials used in the products are UL94-V0 recognized. Products meet requirements of IEC 695-2-2 (Needle Flame Test).
- C. For additional impedance ratios and frequency ranges, please contact Applications Engineering.

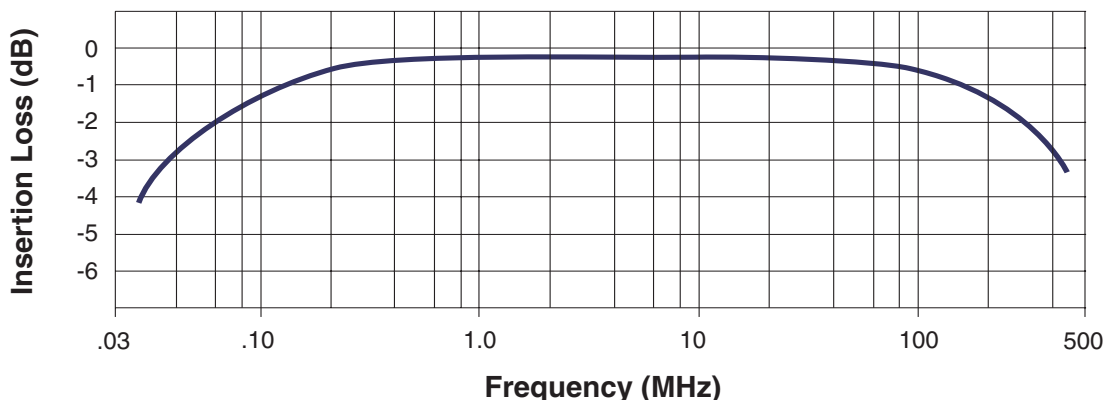
### Notes from Tables

- 1. Impedance and turns ratios are specified primary:secondary. (CT=Center Tap).
- 2. Bandwidth is referenced to midband loss.
- 3. These transformers are verified to operate from -40°C to +85°C. Contact Applications Engineering for performance data.

**CX2032 - Typical Insertion Loss @ 25°C**



**C2042 - Typical Insertion Loss @ 25°C**



### For More Information :

| UNITED STATES<br>(Worldwide)  | UNITED KINGDOM<br>(Northern Europe)  | FRANCE<br>(Southern Europe)   | SINGAPORE<br>(Southern Asia)  | TAIWAN, R.O.C.<br>(Northern Asia)   | HONG KONG<br>(China/Hong Kong)  | DISTRIBUTOR |
|---|--|---|---|---|---|-------------|
| 12220 World Trade Drive<br>San Diego, CA 92128<br>U.S.A.<br><a href="http://www.pulseeng.com">http://www.pulseeng.com</a><br>TEL: 858 674 8100<br>FAX: 858 674 8262 | 1 & 2 Huxley Road<br>The Surrey Research Park<br>Guildford, Surrey GU2 5RE<br>United Kingdom<br>TEL: 44 1483 401700<br>FAX: 44 1483 401701 | Zone Industrielle<br>F-39270<br>Orgelet<br>France<br>TEL: 33 3 84 35 04 04<br>FAX: 33 3 84 25 46 41 | 150 Kampong Ampat<br>#07-01/02<br>KA Centre<br>Singapore 368324<br>TEL: 65 287 8998<br>FAX: 65 280 0080 | 3F-4, No. 81, Sec. 1<br>HsinTai Wu Road<br>Hsi-Chih, Taipei Hsien<br>Taiwan, R.O.C.<br>Tel: 886 2 2698 0228<br>FAX: 886 2 2698 0948 | 19/F, China United Plaza<br>1008 Tai Nan West Street<br>Cheung Sha Wan, Kowloon<br>Hong Kong, China<br>TEL: 852 2788 6588<br>FAX: 852 2776 1055 |             |

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.