






# 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 — Operating Temperature -40°C to +85°C

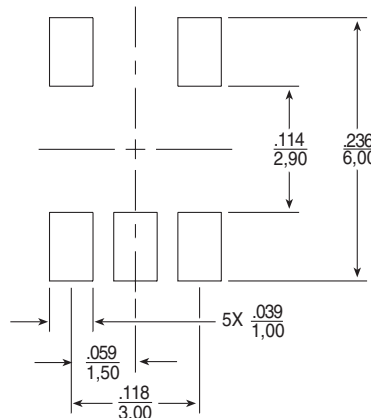
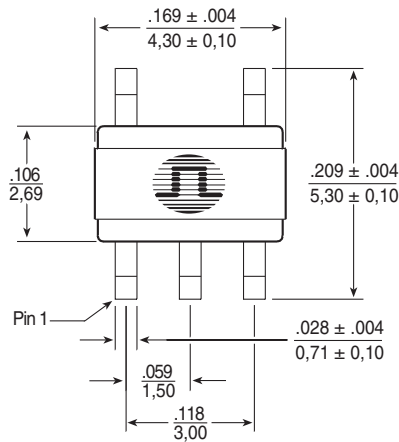
Part Number	Impedance Ratio <sup>1</sup> Pri:Sec (±2%)	Turns Ratio <sup>1</sup> Pri:Sec (±2%)	Bandwidth <sup>2,3</sup> (MHz TYP)	Insertion Loss @ Midband (dB)	Schematic
CX2078	1:1	1:1	5-500	0.6	A
CX2081	1:1.5CT	1:1.2CT	5-125	0.9	B
CX2156	1:1	1:1	2.3 - 2700	0.2	A

NOTE: Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (ex: CX2078T).

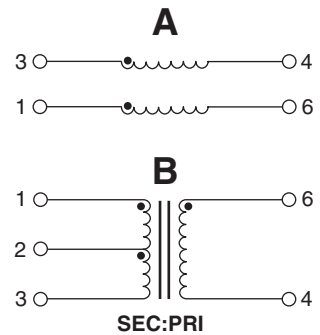
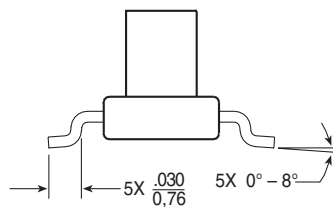
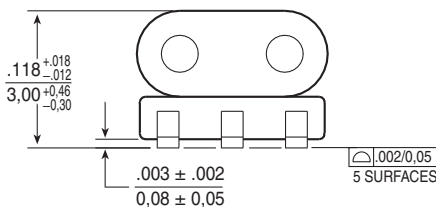
### Mechanical

### Schematics

#### CX2078/CX2081/CX2156



#### SUGGESTED PAD LAYOUT



Weight . . . . . 0.43 grams  
Tape & Reel . . . . . .2200 /reel  
Tray . . . . . .100 /tray

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

# RF TRANSFORMER

## For Wideband RF Applications



### Application Notes

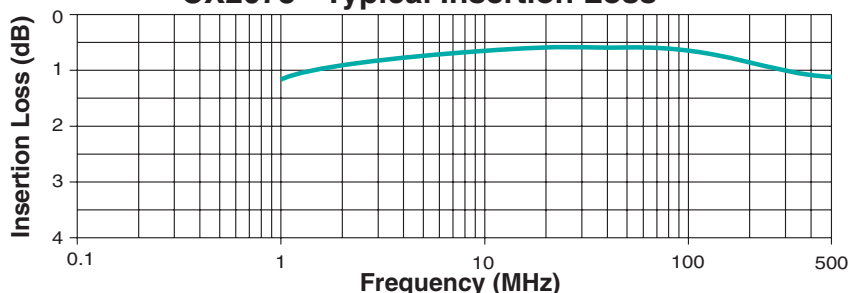
- A. Bandwidth specifications are typical in a 75  $\Omega$  system.
- B. Materials used in the products are UL94-V0 recognized. Products meet requirements of IEC 695-2-2 (Needle Flame Test).

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

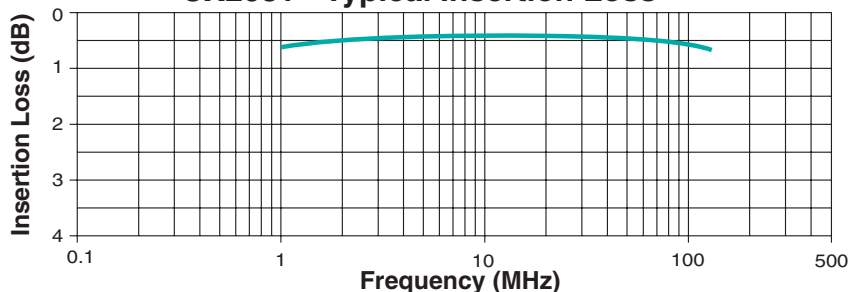
### Notes from Tables

- 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.

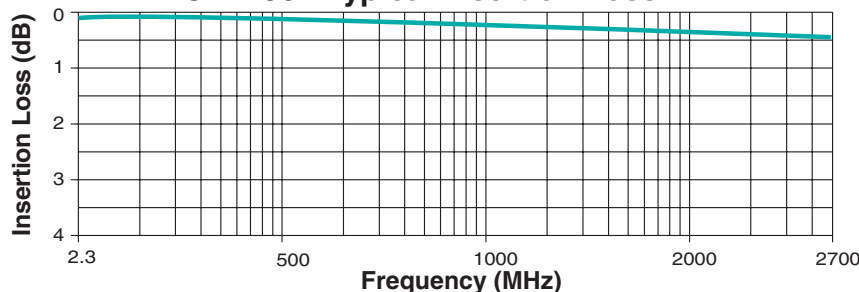
**CX2078 - Typical Insertion Loss**



**CX2081 - Typical Insertion Loss**



**CX2156 - Typical Insertion Loss**



### For More Information :

UNITED STATES (Worldwide)	UNITED KINGDOM (Northern Europe)	FRANCE (Southern Europe)	SINGAPORE (Southern Asia)	TAIWAN, R.O.C. (Northern Asia)	HONG KONG (China/Hong Kong)	DISTRIBUTOR
12220 World Trade Drive San Diego, CA 92128 U.S.A. http://www.pulseeng.com	1 & 2 Huxley Road The Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom	Zone Industrielle F-39270 Orgelet France	150 Kampong Ampat #07-01/02 KA Centre Singapore 368324	3F-4, No. 81, Sec. 1 HsinTai Wu Road Hsi-Chih, Taipei Hsien Taiwan, R.O.C.	9/F, Phase 2, Tai Sang Shatin Warehouse Centre 6 Wong Chuk Yeung Street Fotan, Shatin, Hong Kong	
TEL: 858 674 8100 FAX: 858 674 8262	TEL: 44 1483 401700 FAX: 44 1483 401701	TEL: 33 3 84 35 04 04 FAX: 33 3 84 25 46 41	TEL: 65 6287 8998 FAX: 65 6280 0080	Tel: 886 2 2698 0228 FAX: 886 2 2698 0948	Tel: 852 2788 6588 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.