

RF TRANSFORMER

For Wideband RF Applications



- For single-ended to balanced applications
- Value-oriented construction
- Miniature surface mount package
- Excellent insertion loss
- Designed for CATV Distribution/Drop Amplifiers, Set Top Boxes and Home Gateways

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

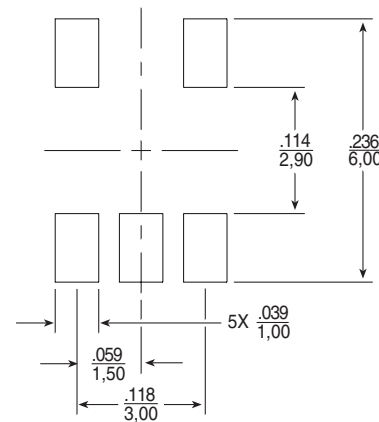
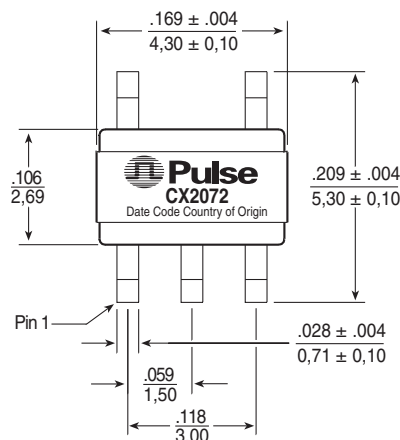
Part Number	Impedance Ratio ¹ Pri:Sec (±2%)	Insertion Loss			Return Loss		Phase Unbalance (10-1000 MHz)	Amplitude Unbalance (10-1000 MHz)
		(10-50 MHz)	(50-870 MHz)	(870-1000 MHz)	(10-50 MHz)	(50-100 MHz)		
CX2072	1:1	1.0 dB MAX	0.5 dB MAX	0.7 dB MAX	>40/20 dB TYP/MIN	>30/20 dB TYP/MIN	6 deg. MAX	1 dB MAX

NOTE: Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (ex: CX2072T).

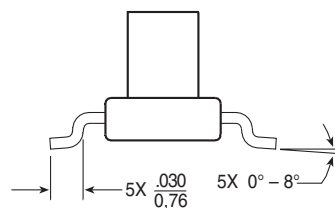
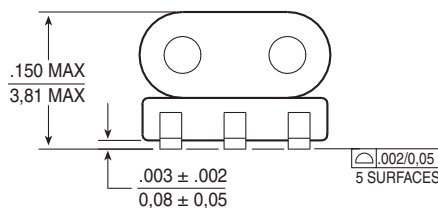
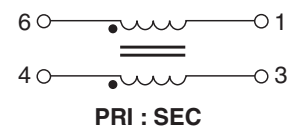
Mechanical

Schematic

CX2072



SUGGESTED PAD LAYOUT



Weight0.43 grams
Tape & Reel2200 /reel
Tray100 /tray

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

RF TRANSFORMER

For Wideband RF Applications



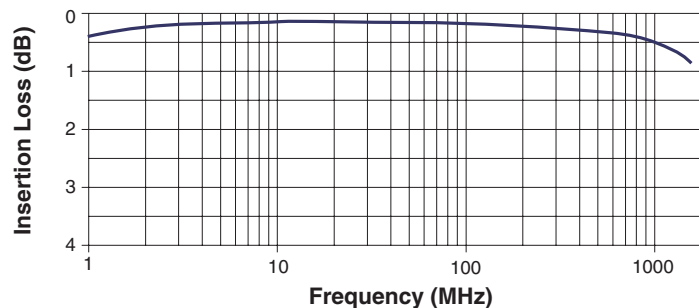
Application Notes

- A. Bandwidth specifications for **CX2072** are for a 75Ω 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.
- D. Pick and place operation: smooth upper surface of device allows automatic pick and place.

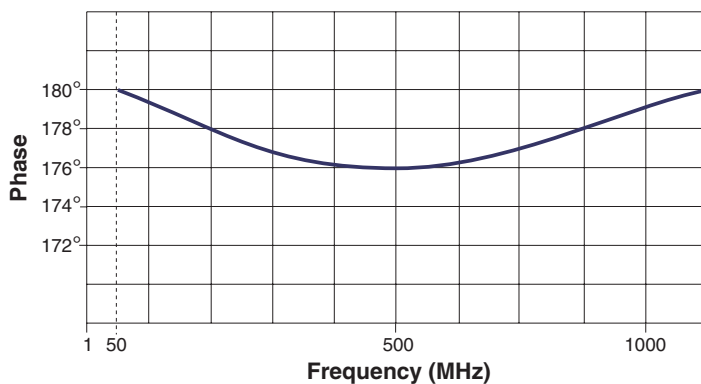
Notes from Tables

- 1. Impedance and turns ratios are specified primary:secondary.
- 2. These transformers are verified to operate from -40°C to +85°C. Contact Applications Engineering for performance data.

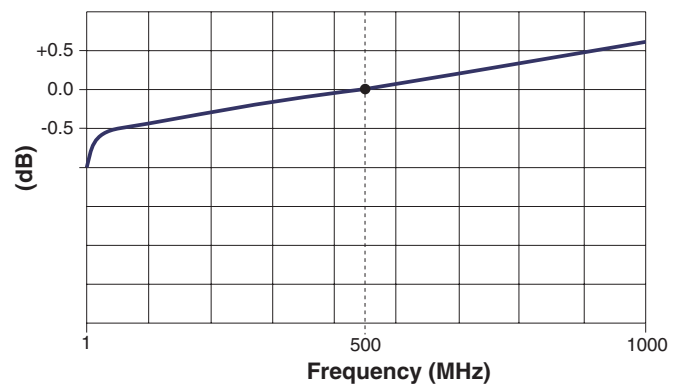
CX2072 - Typical Insertion Loss



CX2072 - Phase Unbalance



CX2072 - Amplitude Unbalance



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 TEL: 858 674 8100 FAX: 858 674 8262	1 & 2 Huxley Road The Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom TEL: 44 1483 401700 FAX: 44 1483 401701	Zone Industrielle F-39270 Orgelet France TEL: 33 3 84 35 04 04 FAX: 33 3 84 25 46 41	150 Kampong Ampat #07-01/02 KA Centre Singapore 368324 TEL: 65 6287 8998 FAX: 65 6280 0080	3F-4, No. 81, Sec. 1 HsinTai Wu Road Hsi-Chih, Taipei Hsien Taiwan, R.O.C. Tel: 886 2 2698 0228 FAX: 886 2 2698 0948	9/F, Phase 2, Tai Sang Shatin Warehouse Centre 6 Wong Chuk Yeung Street Fotan, Shatin, Hong Kong 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.