



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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RF Balun Transformers

For Wideband RF Applications



- Low cost construction
- Miniature surface mount package
- Excellent insertion loss
- Ideal for balanced-to-unbalanced applications
- Designed for:
 - CATV Distribution/Drop Amplifiers
 - Set Top Boxes
 - Residential Gateways

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

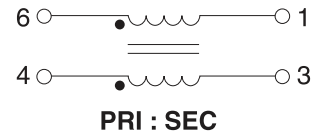
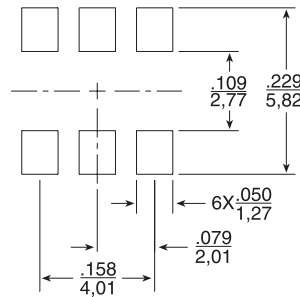
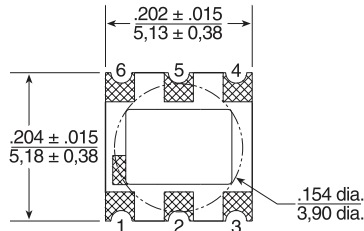
Standard Part Number	RoHS-6 Compliant Part No.	Impedance Ratio ¹ (Pri:Sec ±2%)	Insertion Loss ²			Return Loss			Phase Unbalance (50/1000MHz)	Amplitude Unbalance	
			10MHz (TYP/MAX)	50-750MHz (TYP/MAX)	750-1000MHz (TYP/MAX)	10MHz (TYP/MIN)	50-750MHz (TYP/MIN)	750-1000MHz (TYP/MIN)		(50MHz)	(100-1000MHz)
CX2024	CX2024NL	1:1	0.46/1.00dB	0.37/0.50dB	0.48/0.60B	>40/20dB	>30/20dB	30/16dB	20° MAX	1.4dB MAX	1.25dB MAX
CX2024A	CX2024ANL	1:1	0.46/1.00dB	0.37/0.50dB	0.48/0.60B	>40/20dB	>30/20dB	30/16dB	20° MAX	1.4dB MAX	1.25dB MAX
			50MHz (TYP/MAX)	208MHz (TYP/MAX)	870MHz (TYP/MAX)	50MHz (TYP/MAX)	208MHz (TYP/MAX)	870MHz (TYP/MAX)	50-870MHz	50MHz	100-870MHz
CX2149	CX2149NL	1:1	0.40/1.00B	0.40/1.00B	0.6/1.0B	>30/20dB	30/20dB	22/18dB	±4° from 180°	1.4dB MAX	1.3dB MAX

Notes: 1. Part with cover plate is designated CX2024A. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (ex: CX2024T or CX2024AT).

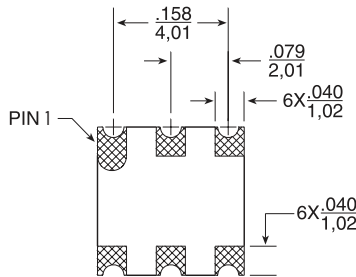
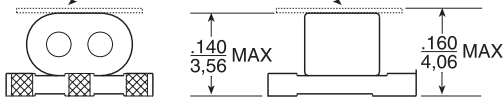
Mechanical

Schematic

CX2024/NL, CX2024A/NL & CX2149/NL



NOTE: CX2024A has optional cover plate



Tape & Reel2000/reel

Tray100/tray

Power Rating30 mA MAX; 0.25 W MAX

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

RF Balun Transformers

For Wideband RF Applications

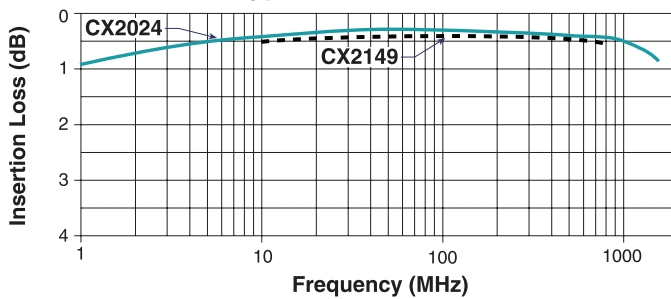
Application Notes

- Bandwidth specifications for **CX2024**, **CX2024A** and **CX2149** are for a 75 Ω system.
 - Materials used in the products are UL94-V0 recognized. Products meet requirements of IEC 695-2-2 (Needle Flame Test).
- For additional impedance ratios and frequency ranges, please contact Applications Engineering.
 - Pick and place operation: smooth upper surface of device allows automatic pick and place.

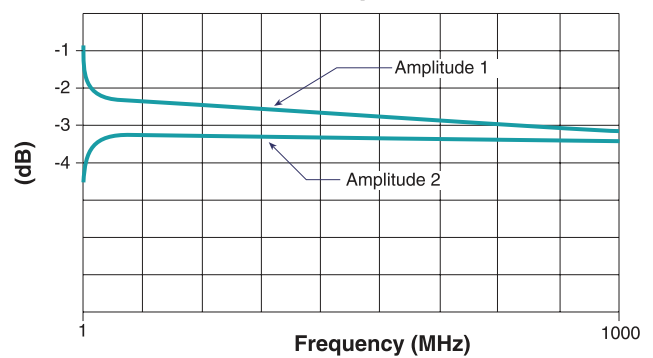
Notes from Tables

- Impedance and turns ratios are specified primary :secondary.
- These transformers are verified to operate from -40°C to $+85^{\circ}\text{C}$. Contact Applications Engineering for performance data.

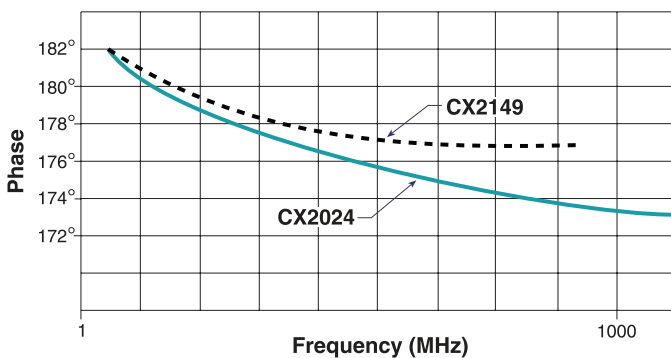
Typical Insertion Loss



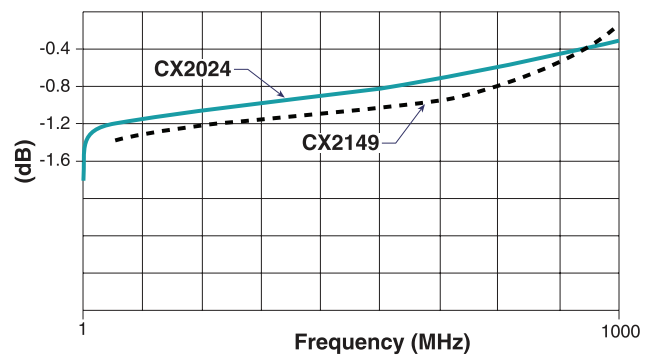
Amplitude



Phase Unbalance



Amplitude Unbalance



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