



- Ⓢ RoHS peak reflow temperature rating: 245°C
- Ⓢ Miniature surface mount package
- Ⓢ Various impedance ratios available
- Ⓢ Excellent insertion loss
- Ⓢ Ideal for Balanced-to-Unbalanced applications
- Ⓢ Products from 0.05 to 1900 MHz bandwidth

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

RoHS Compliant Part Number	Impedance Ratio <sup>1</sup> Pri:Sec	Turns Ratio Pri:Sec (±2%)	Bandwidth 2, 3 (MHz TYP)			Insertion Loss @ Midband (dB TYP)	Schematic	Primary Pins
			3 dB	2 dB	1 dB			
CX2041NL	1:1CT	1:1CT	0.05-450	0.75-300	0.10-200	0.60	B	4-6
CX2040LNL	1:1	1:1	1.5-500	2.5-400	5-350	0.90	A	4-6
CX2043LNL	1.5:1	√1.5:1	—	—	1-1000	0.20	D	3-6
CX2044LNL	1.5:1	√1.5:1	—	1.0-500	5-100	0.20	A	1-3
CX2045LNL	1:2CT	1:1.414CT	—	—	3-300	0.80	B	4-6
CX2047LNL	1:4CT	1:2CT	—	0.5-300	1.5-100	0.24	B	4-6
CX2049LNL	1:8CT	1:2.83CT	.25-500	0.3-400	0.5-200	1.16	B	4-6
CX2029LNL	36:1CT	6:1CT	0.05-21	—	—	0.40	B	4-6
CX2163LNL	1:1	1:1	800-1900	—	900-1400	1.50	E	1-3

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

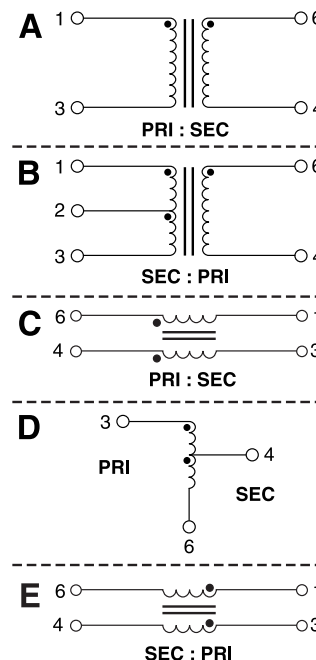
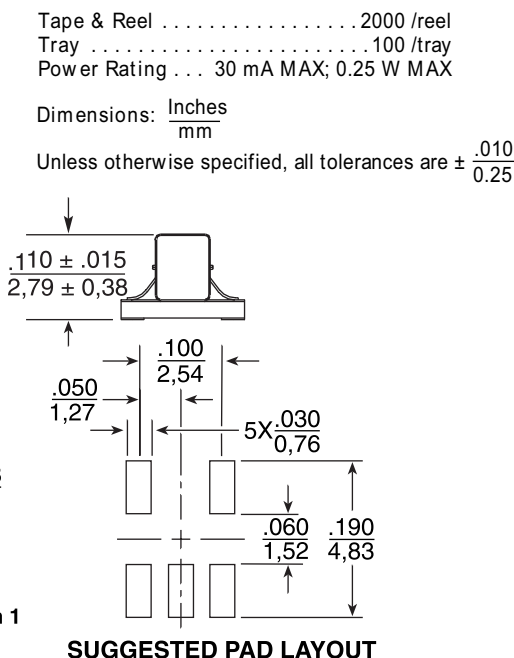
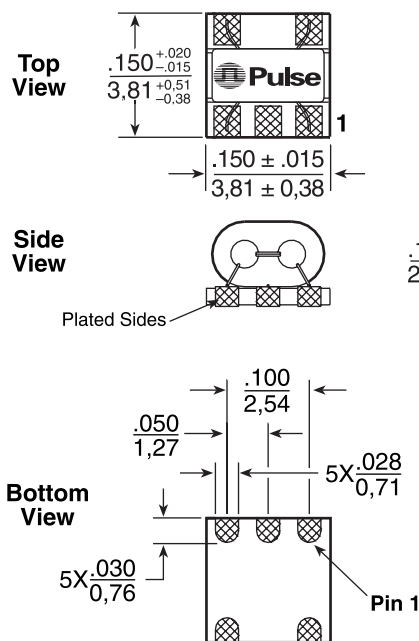
RoHS Compliant Part Number	Impedance Ratio <sup>1</sup> Pri:Sec	Turns Ratio Pri:Sec (±2%)	Bandwidth 2, 3 (MHz TYP)		Schematic	Primary Pins
			2 dB	1 dB		
CX2038LNL	75 Ω:75 Ω	1:1CT	Up to 1500	4.5-1000	C	4-6
CX2039LNL	50 Ω:50 Ω	1:1	Up to 1500	4.5-1000	C	4-6

Notes: Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number, e.g. CX2041NLT, CX2163NLT.

Mechanical

Schematics

RACKET-LITE



Notes from Tables

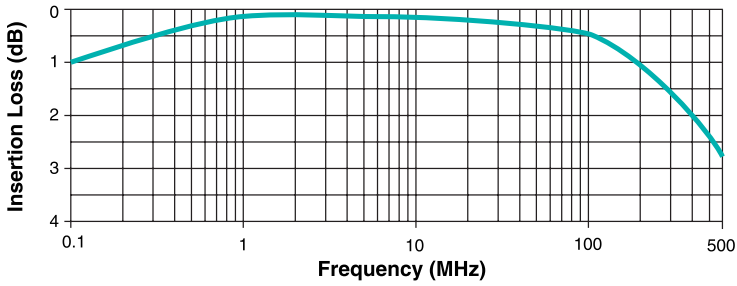
1. Impedance and turns ratios are specified primary:secondary. (CT=Center Tap).
2. Bandwidth is referenced to midband loss.
3. These transformers are verified to operate from -40°C to +85°C. Contact Pulse Applications Engineering for performance data.

Application Notes

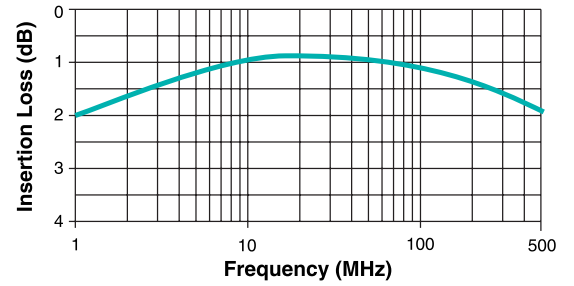
- A. Bandwidth specifications for **CX2040LNL** and **CX2047LNL** are for a 50 Ω system.
- B. Materials used in the products are UL94-V0 recognized. Products meet requirements of IEC 695-2-2 (Needle Flame Test).
- C. **CX2038LNL**, **CX2039LNL**, and **CX2043LNL** transformer configurations do not provide DC isolation between primary and secondary windings.
- D. For additional impedance ratios and frequency ranges, please contact Pulse Applications Engineering.
- E. Pick and place operation: smooth upper surface of device allows automatic pick and place.
- F. For availability of lead-free version of this product, please contact Pulse.

Typical Insertion Loss @ 25°C

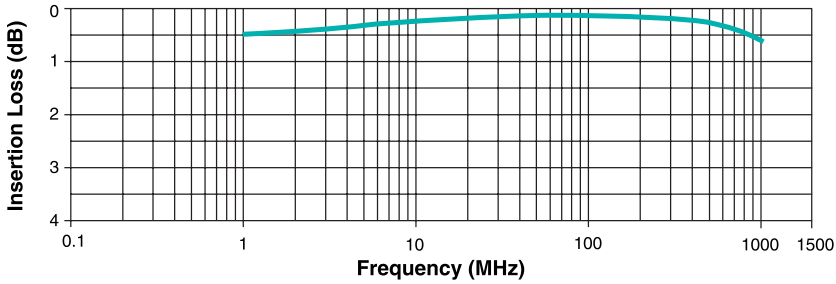
**CX2041NL**



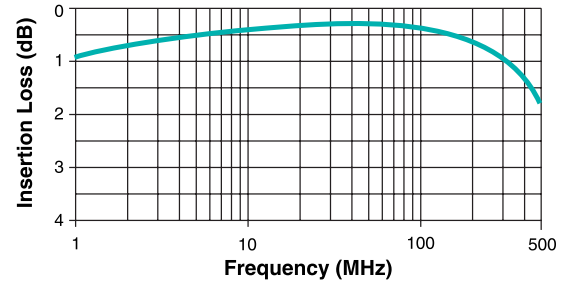
**CX2040LNL**



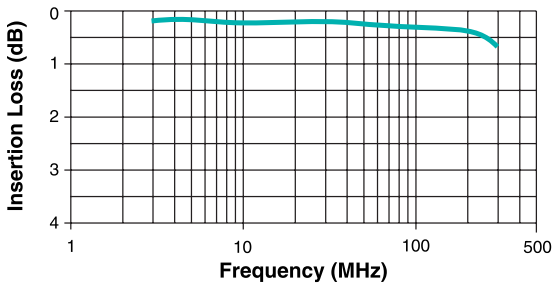
**CX2043LNL**



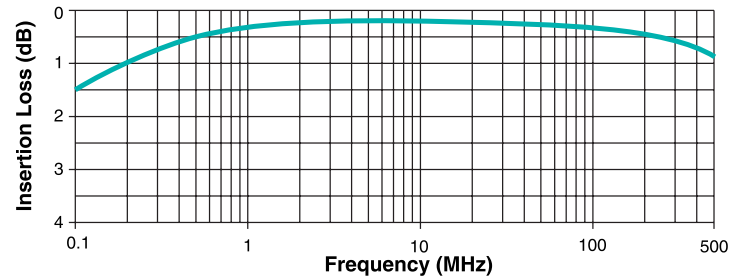
**CX2044LNL**



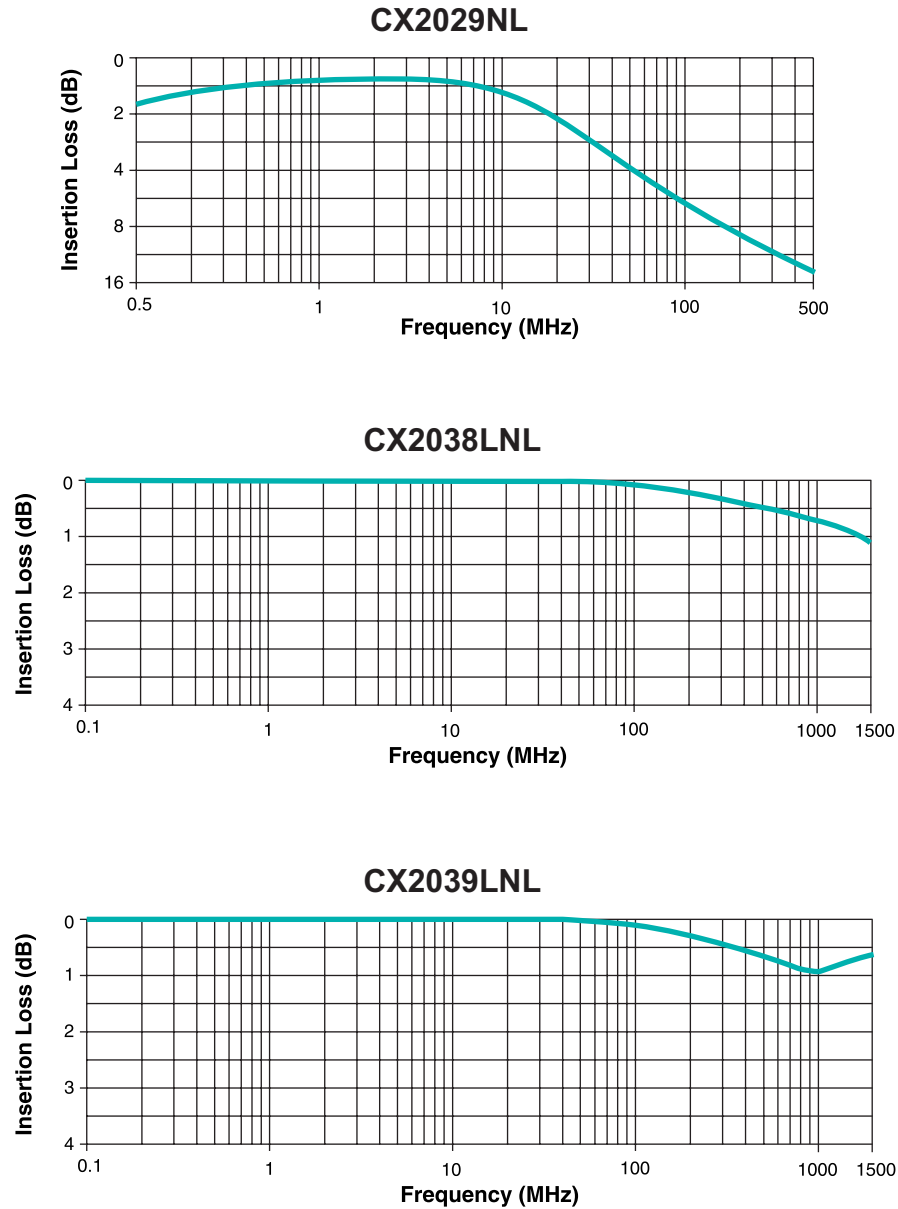
**CX2045LNL**



**CX2047LNL**



Typical Insertion Loss @ 25°C



For More Information:

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