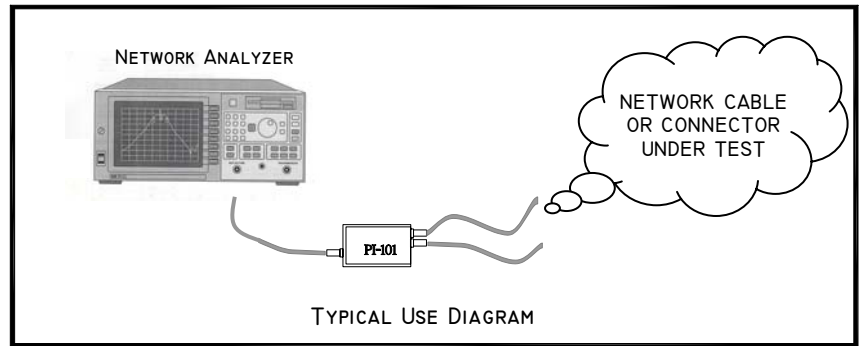
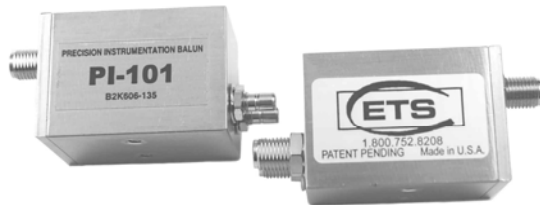


# PI-100 Series

# Precision Instrumentation Balun



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> <li>• 50 ohm SMA input</li> <li>• 100 ohm output as two 50 ohm SMA or SMB</li> <li>• Shielded metal enclosure</li> <li>• Made in USA</li> <li>• 100% tested</li> </ul>	<p>The <b>ETS PI100 Series</b>, is a 3.0 GHz instrumentation balun for testing cables and connectors designed to TIA, IEC and other testing organization specifications. The balun has a useful bandwidth of four decades from 300 KHz to 3.0 GHz . No other instrumentation balun provides this wide or high of a range.</p> <p>The <b>Precision Instrument Balun</b> is useful for many tests including insertion loss, return loss, near end and far end crosstalk, balance and CMRR.</p> <p>Transmission line techniques are used to achieve bandwidths more than twice that achievable with transformer techniques. Five transmission lines are built into each balun. The unique design for the <b>Precision Instrument Balun</b> has been issued Patent – US 7,443,263 B2 (10.08)</p> <p>Input is unbalanced 50 ohm SMA connector. Output is two unbalanced 50 ohm SMA or SMB connectors configured as a balanced 100 ohm circuit.</p>	<ul style="list-style-type: none"> <li>• Designed for use in testing network cables, connectors and wiring systems at frequencies up to 3.0 GHz</li> <li>• Transmission testing of connecting hardware for: <ul style="list-style-type: none"> <li>- TIA 568 B2</li> <li>- IEC 1130</li> <li>- IEC 1181</li> </ul> </li> </ul>

Specifications		Product Ordering Information	
Bandwidth Connectors	300 KHz to 3.0 GHz Female-SMA connector to (2) Female-SMA or Male-SMB connectors	PI-101	Precision Instrumentation balun, Female-SMA connector to (2) Male-SMB connectors
Impedance Insertion Loss Return Loss Common Mode Rejection	50 ohm 4 dB per pair 30 dB min. 60 dB to 200MHz 30 dB @ 3 GHz	PI-102	Precision Instrumentation balun, Female-SMA connector to (2) Female-SMA connectors
Dimensions Net Weight	57mm x 26mm x 26mm 0.045 Kg		

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