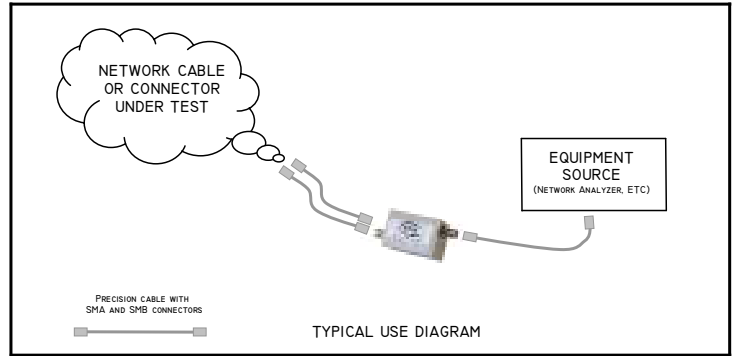


PI100 Series

Precision Instrumentation Balun



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> • 50 ohm SMA input • 100 ohm output as two 50 ohm SMA or SMB • Metal enclosure • Made in USA • 100% tested 	<p>The ETS PI100 Series is a 3.0 GHz instrumentation balun for testing the performance of cables or connectors designed to TIA, IEC, and related testing organization specifications. The PI100 has a useful bandwidth of four decades, from 300 KHz to 3.0 GHz . No other instrumentation balun offers a range as wide or as high.</p> <p>The ETS Precision Instrument Balun is useful for a variety of tests, including insertion loss, return loss, near-end and far-end crosstalk, balance, and CMRR.</p> <p>Transmission line techniques are employed to achieve bandwidths more than twice that achievable with transformer techniques, and five transmission lines are built into each balun. The unique design for the Precision Instrument Balun has been issued US Patent # 7,443,263 B2 (10/08)</p> <p>This device is designed for application in a 50 ohm system. To achieve wide bandwidth and high CMRR, matched impedance transmission line construction is utilized in this unit. The low impedance port is designed to be connected to a 50 ohm impedance and the high impedance port is designed to be connected to a 100 ohm impedance balanced about ground. It is capable of handling 10mA of DC current at any port and is limited to RF power of nominally 2W (33dBm) under matched conditions and under infinite VSWR conditions to 10 Vrms, 28 Vp-p at the 50 ohm port and 56 Vrms, 80 Vp-p at the 100 ohm port.</p>	<ul style="list-style-type: none"> • Designed for use in testing network cables, connectors, and wiring systems at frequencies up to 3.0 GHz. • Transmission testing of connecting hardware for: <ul style="list-style-type: none"> • TIA 568 B2 • IEC 1130 • IEC 1181

Specifications		Product Ordering Information	
Bandwidth	300 KHz to 3.0 GHz	PI101	Precision instrumentation balun, Female-SMA connector to (2) Male-SMB connectors
Connectors	Female-SMA connector to (2) female-SMA or male-SMB connectors	PI102	Precision instrumentation balun, Female-SMA connector to (2) Female-SMA connectors
Impedance	50 ohm		
Insertion Loss	4 dB per pair		
Return Loss	30 dB min.		
Common Mode	60 dB to 200MHz		
Rejection	30 dB @ 3 GHZ		
Dimensions	57mm x 26mm x 26mm		
Net Weight	0.045 Kg		

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