



Eagle RLB150N5

Return loss bridge, 5MHz to 3GHz, Type-N (f)

Product Information

FEATURES:

- Coverage: 5 MHz to 3000 MHz
- Five Watt Power Rating
- Directivity >40 dB
- Internal 50 ohm Reference
- Use with Spectrum Analyzers
- Rugged case and connectors
- Antenna Measurements

Description

Return loss bridges are useful in measuring VSWR or return loss of filters, mixers, antennas and amplifiers. With directivity ratings of better than 40 dB, EAGLE bridges yield excellent results. The bridges may also be used for coupling two generators for intermodulation testing or power splitting for leveling systems. All EAGLE bridges have a true RF output they can be connected directly to network or spectrum analyzers. Even spectrum analyzers contained in communications service monitors can be used. The RLB150N5 return loss bridge has been designed for lasting service in either laboratory or field service applications. Within its operational range, the bridge yields laboratory performance in directivity and open/short ratio. Covering a range of 5 to 3000 MHz, this bridge will provide an excellent means of measuring VSWR for VHF, UHF, Cellular, and PCS.

These bridges have three ports SOURCE, LOAD and REFLECTED. The REFLECTED port on all EAGLE bridges is an RF port. The bridge may be connected directly to a network or spectrum analyzer. The reference (a precision 50 ohm load) is built into EAGLE bridges so a REFERENCE port is not required.

SPECIFICATIONS

Electrical:

Insertion Loss: <7.0 dB SOURCE to LOAD port; <7.5 dB LOAD to REFLECTED port
Power Rating: 1.5 Watt Continuous; 5.0 Watt 1 min on 4 min off

CAUTION: Do NOT apply DC to any port

Port Match: Source: >20 dB RL; DUT: >25 dB RL; Reflected: >10 dB RL
Directivity: 5 to 50 MHz >25 dB; 50 to 3000 MHz >40 dB
Open/Short Ratio $\leq \pm 1.5$ dB

Environmental:

Storage: -55° to +125° C
Operating: +10° to +50° C
Humidity: 10% to 80% RH (Non-condensing)
Waterproof: No