



montena

Ultra Broadband Balun



The BL3-5G balun can be used to measure differential signals, for instance produced by derivative electromagnetic free field sensors. The phase and amplitude balances are excellent and the frequency range is extremely wide. This allows faithful measurement of signals like pulses for instance. The shielding effectiveness of the device allows measurements in a disturbed environment. As the balun is passive and all the accesses are 50 ohm, it can be used in both directions.

Other models covering higher frequency ranges are under development.

SPECIFICATIONS

| | |
|---------------------------------------|---|
| Type | BL3-5G |
| Frequency range (+0 / -3 dB) | 500 Hz - 3.5 GHz |
| Impedance | 50 ohm |
| Insertion loss | 6.2 dB + 0 / - 3 dB |
| Return loss (<i>asym</i> port) | < - 20 dB (- 50 dB @ 1 MHz) |
| Return loss (<i>sym</i> ports) | < - 20 dB (- 50 dB @ 1 MHz) |
| Differential amplitude balance | ± 0.5 dB |
| Differential phase balance | ± 4 degrees |
| Common mode rejection | > 20 dB (55 dB @ 1 MHz) |
| Maximum input power | 100 mW |
| Maximum input voltage | 500 V (100 ns pulse) |
| Connectors | SMA female (distance between <i>sym</i> ports: 30 mm) |
| Dimensions | 120 x 60 x 30 mm (L x W x H) |
| Weight | 240 g |