

BALUN100M-12G High Pulse Fidelity Passive Broadband 180 degree Splitter / Combiner



SPECIFICATIONS:

0/180 Degree Phase Matching: Better than 10ps.

**Frequency response: 200MHz to 10GHz 3dB points. Usable
frequency range: 50 MHz to 20GHz**

Signal Attenuation: 6dB

Power handling capability: 2 Watts

**Connections: SMA connectors, 50 ohm impedance. Single ended
signal is at Port A and differential signals are at Port B+ and B-.**

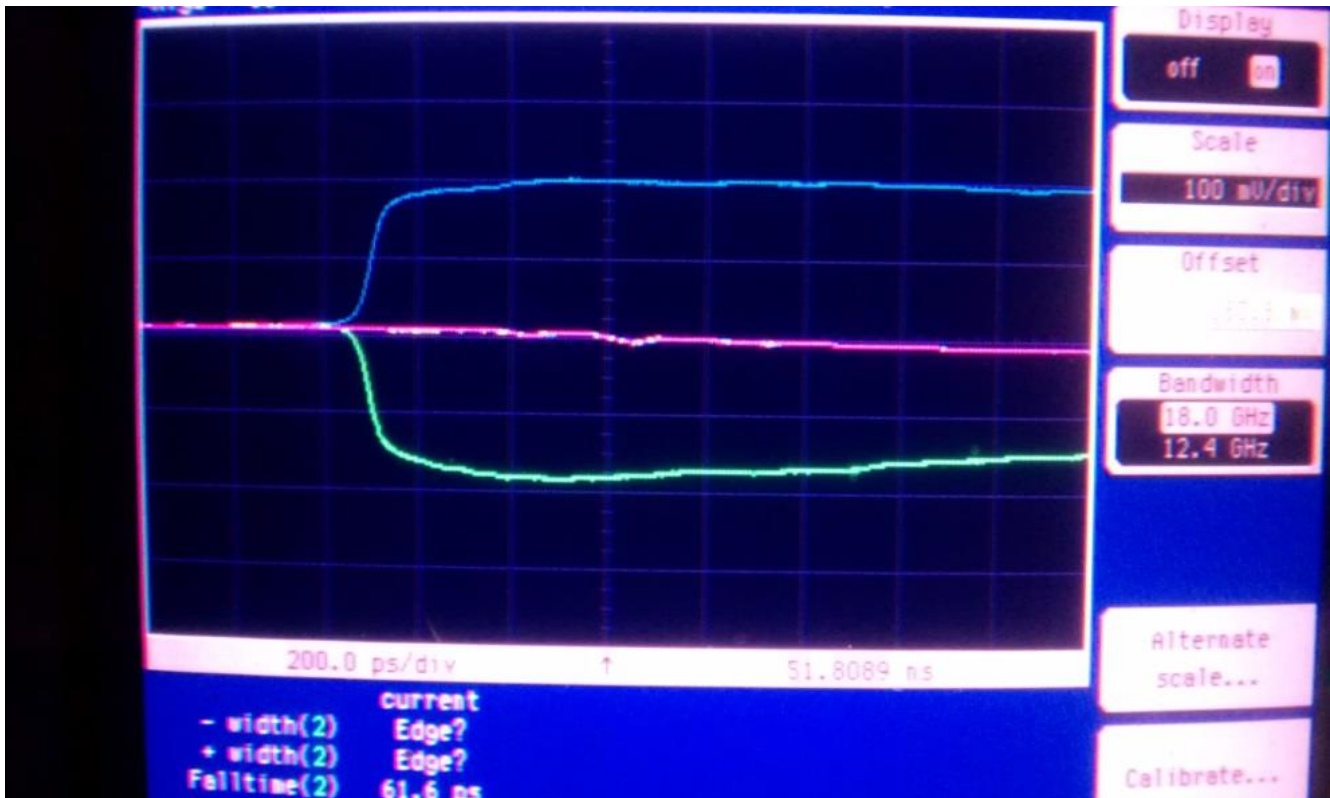


Fig 1. BALUN100M-12G converting single input edge fed into Port A to two differential signals that output on Ports B+ and B-. Pink trace is TDR of input signal showing good match. Blue trace is positive output, Green trace is negative output. Scale is 200ps/div

INTRODUCTION AND OPERATION:

The BALUN100M-12G is a passive 0/180 degree power combiner/splitter based on a resistively padded transmission line. To convert a differential signal into a single-ended signal, connect the differential signals to the B- and B+ terminals. The single ended signal will appear on the C connector. To convert a single ended signal into a differential signal, connect the single ended signal to the C connector, and two differential signals will appear at the B- and B+ terminals.