

PD3120 - POWER DIVIDER/COMBINER

2-Way, SMA-Jack, T-Style, 0.7-2.7 GHz, 40 Watts

Features & Benefits



T-housing allows convenient cable access

Overview

PD3120 is a broadband, 2-way, power divider/power combiner furnished with SMA-Jack connectors in a T-Style housing. All wireless-band frequencies from 0.7 - 2.7 GHz are covered with optimal performance. Input power levels up to 40 watts can be handled in both power divider and power combiner applications. See **input power rating tables** for specific details.

Electrical

The heart of the unit is a precision designed and etched microstrip circuit on a low-loss, high frequency, dielectric substrate. Electrical performance is highlighted by 0.4 dB max insertion loss (above the 3.01 dB power split), 22 dB min isolation, 1.20:1 max input VSWR and 1.15:1 max output VSWR. Equal power split and balance is displayed by 0.2 dB max ampli-

tude balance and 2 degrees max phase balance. Narrow band performance over your frequency range may be even better. See **power divider test sweeps** for specific details.

Mechanical

The PD3120's T-Style housing allows convenient cable access to all connector ports. Mechanical features include precision CNC machined, brass, SMA-Jack connectors with tri-alloy plating to insure tarnish resistance and low-PIM operation. Connector pins are gold plated beryllium copper for reliability and low contact resistance. Virgin electrical grade PTFE insulators support the contact pins enabling high withstand voltage. Long-term operation and superior shielding is maintained by the rugged CNC-machined aluminum housing with yellow iridite finish. Secure mounting is provided by two 0.125 in. diameter (3.18 mm) through holes.

Physical

Housing dimensions are 1.98 in. wide by 1.98 in. deep by 0.75 in. high (50.3 x 50.3 x 19.1 mm). The SMA-Jack connectors extend 0.65 in. (16.5 mm) from the housing. Weight is 111 grams. Operating temperature range is from -65°C to +85°C. See **power divider outline drawing** for more information.

Warranty

Each unit is 100% electrically tested to insure complete compliance with all specifications. The PD3120 power divider/power combiner is covered by a **two-year warranty**.

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- manufacture
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