

# PD1080 - POWER DIVIDER/COMBINER

## 8-Way, N-Jack, 0.7-2.7 GHz, 40 Watts

## Features & Benefits



designed for optimum broadband performance

## Overview

**PD**1080 is a broadband, 8-way, power divider, power combiner furnished with N-Jack connectors. 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

**T**he 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 1.3 dB max insertion loss (above the 9.03 dB power split), 22 dB min isolation, 1.40:1 max input VSWR and 1.15:1 max output VSWR. Equal power split and balance is displayed by 0.5 dB max ampli-

tude balance and 6 degrees max phase balance. Narrow band performance over your frequency range may be even better. See **power divider test sweeps** for specific details.

## Mechanical

**M**echanical features include precision CNC machined, brass, N-Jack connectors with tri-alloy plating to insure tarnish resistance and low-PIM operation. Connector pins are gold plated phosphor bronze 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 four 0.125 in. diameter (3.18 mm) through holes.

## Physical

**H**ousing dimensions are 7.98 in. wide by 2.98 in. deep by 0.75 in. high (202.7 x 75.7 x 19.1 mm). The N-Jack connectors extend 0.65 in. (16.5 mm) from the housing. Weight is 722 grams. Operating temperature range is from -65°C to +85°C. See **power divider outline drawing** for more information.

## Warranty

**E**ach unit is 100% electrically tested to insure complete compliance with all specifications. The PD1080 power divider, power combiner is covered by a **two-year warranty**.

- design
- manufacture
- direct sales

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