Three-Way Power Divider,
3 - 700 MHz

Features
- Insertion Loss: 0.4 dB Typical Mid-band
- Isolation: 28 dB Typical Mid-band
- Input VSWR: 1.2:1 Typical
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1 Watt Max.
- Internal Load Dissipation: 0.125 Watts Max.
- MIL-STD-202 Screening Available

Description
A Power Divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS-328 PIN</td>
<td>TO-8-2</td>
</tr>
</tbody>
</table>
## Electrical Specifications

### Parameter | Test Conditions | Frequency | Units | Min | Typ | Max
--- | --- | --- | --- | --- | --- | ---
Insertion Loss | Less Coupling | 3 - 500 MHz | dB | — | — | 0.70
| | | 500 - 700 MHz | dB | — | — | 1.0
Isolation | — | 3 - 700 MHz | dB | 20 | — | —
Amplitude Balance | — | 3 - 500 MHz | dB | — | — | 0.25
| | | 500 - 700 MHz | dB | — | — | 0.4
Phase Balance | — | 3 - 500 MHz | ° | — | — | 3
| | | 500 - 700 MHz | ° | — | — | 4
VSWR | All Ports | 10 - 500 MHz | Ratio | — | — | 1.3:1
| | | 3 - 700 MHz | Ratio | — | — | 1.5:1

1. All specifications apply with 50 ohm source and load impedance.

This product contains elements protected by United States Patent Number 3,428,920.
Three-Way Power Divider, 3 - 700 MHz

Typical Performance Curves

**Insertion Loss**

**Isolation**

**VSWR**