



9-Way Broadband Power Dividers/Combiners

FEATURES

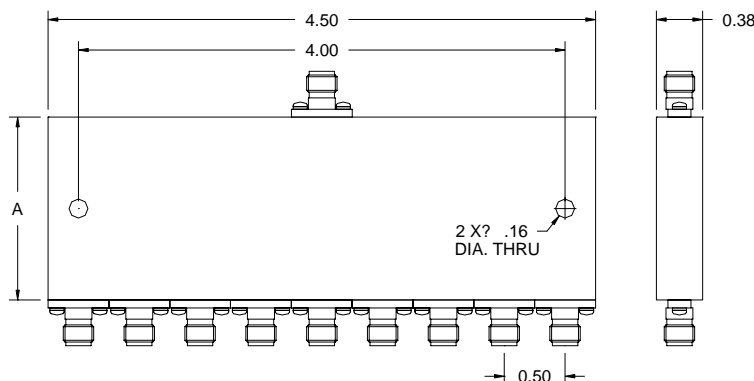
- ❖ Low Insertion Loss
- ❖ Low VSWR
- ❖ High Isolation
- ❖ Low Profile
- ❖ Excellent Amplitude Tracking
- ❖ Excellent Phase Tracking
- ❖ High Power Handling
- ❖ Wide Operating Temperature Range

SPECIFICATIONS

| 9-Way Broadband Power Dividers/Combiners | | | | | | | | | | | | | |
|--|------------|----------------|-----|---------------------|-----|----------------------------------|---------------------------------------|--------|--------|--------|--------|--------------------|----------------|
| Model Number | Freq (GHz) | Isolation (dB) | | Insertion Loss (dB) | | Amplitude Balance (dB rms) (Max) | Phase Balance ($^{\circ}$ rms) (Max) | VSWR | | | | Input Power (Watt) | Outline Figure |
| | | Typ | Min | Typ | Max | | | Input | | Output | | | |
| | | | | | | | | Typ | Max | Typ | Max | | |
| Ultra Broadband | | | | | | | | | | | | | |
| 9DT-1D35 | 0.2-2.5 | 18 | 16 | 2.6 | 2.9 | 0.35 | 4 | 1.45:1 | 1.55:1 | 1.35:1 | 1.45:1 | 80 | 4 |
| 9DYS-4D75 | 0.5-9 | 17 | 15 | 3.6 | 3.9 | 0.45 | 5 | 1.50:1 | 1.60:1 | 1.35:1 | 1.45:1 | 80 | 4 |
| 9DB-5D50 | 1-10 | 18 | 16 | 3.0 | 3.3 | 0.35 | 5 | 1.45:1 | 1.55:1 | 1.35:1 | 1.45:1 | 60 | 3 |
| 9DYS-9D50 | 1-18 | 17 | 15 | 4.2 | 4.5 | 0.45 | 5 | 1.55:1 | 1.65:1 | 1.45:1 | 1.55:1 | 50 | 3 |
| Multi-Octave Band | | | | | | | | | | | | | |
| 9DQ-2D25 | 0.5-4 | 19 | 17 | 1.8 | 2.1 | 0.35 | 4 | 1.40:1 | 1.50:1 | 1.35:1 | 1.45:1 | 60 | 3 |
| 9DS-1D65 | 0.7-2.6 | 19 | 17 | 1.2 | 1.5 | 0.2 | 3 | 1.35:1 | 1.45:1 | 1.25:1 | 1.35:1 | 40 | 2 |
| 9DS-1D50 | 0.8-2.2 | 20 | 18 | 1.0 | 1.3 | 0.2 | 3 | 1.35:1 | 1.45:1 | 1.25:1 | 1.35:1 | 40 | 2 |
| 9DS-2D50 | 1-4 | 19 | 17 | 1.2 | 1.5 | 0.2 | 4 | 1.45:1 | 1.55:1 | 1.35:1 | 1.45:1 | 40 | 2 |
| 9DS-5D00 | 2-8 | 21 | 19 | 1.4 | 1.7 | 0.25 | 4 | 1.45:1 | 1.55:1 | 1.35:1 | 1.45:1 | 40 | 2 |
| 9DS-6D00 | 3-9 | 19 | 17 | 1.2 | 1.5 | 0.25 | 4 | 1.45:1 | 1.55:1 | 1.35:1 | 1.45:1 | 40 | 1 |
| 9DS-7D50 | 3-12 | 18 | 16 | 1.4 | 1.7 | 0.3 | 4.5 | 1.55:1 | 1.65:1 | 1.40:1 | 1.50:1 | 40 | 2 |

Note 1. Input power rate is at the condition when all the outputs are connected to the loads with 1:25:1 or better VSWR at any phase difference. Higher power rate is available on request.

Note 2. Standard connectors are SMA for frequency up to 18 GHz, super SMA for frequency up to 27 GHz and 2.92 mm for frequency up to 40 GHz. Other connector options are available on request.



| Outline | |
|---------|----------|
| Figure | A (inch) |
| 1 | 3.2 |
| 2 | 4.2 |
| 3 | 6.2 |
| 4 | 9.0 |