# TDBPD0404000800A

## 4-Way Power Divider

### Typical Applications

- Fixed Wireless & Microwave Radio below 8 GHz
- Military, Space & Satellite Communications
- Test and Measurement Equipment

### Main Features

Ultra Wideband 4 – 8 GHz
Excellent phase and amplitude unbalance
Low insertion loss
SMA Connectorized
Low temperature coefficient material offer stable performance over temperature
High peak to average handle capability
RoHS Compliant

## Electrical Specifications

| Parameter | Unit | Specification |
|---|---|---|
| Frequency Range | GHz | 4 – 8 |
| Isolation | dB | 20 min |
| Insertion Loss | dB | < 0.8 (Above 6 dB) |
| VSWR Input/Output | | 1.3 max / 1.25 max |
| Phase Unbalance | ° | ± 3 max |
| Amplitude Unbalance | dB | ± 0.3 max |
| Forward Power | W | 30 max CW |
| Reverse Power | W | 2 max CW |
| In/Out Impedance | Ohm | 50 typ. |


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## Environment

| Parameter | Unit | Specification |
|---|---|---|
| Operating Temperature | °C | -45°C to +85°C |
| Storage Temperature | °C | -55°C to +125°C |
| Altitude | ft | 30 000 (Epoxy Seal Controlled Environment) |
| Altitude (Optional) | ft | 60 000 1.0 psi min (Hermetically Seal Uncontrolled Environment) |
| Vibration | g | 25 g RMS (15° @ 2 KHz) endurance, 1 hour per axis |
| Humidity | % | 100 RH at 35°C, 95 RH at 40°C |
| Shock | G | 20 for 11msc half sin wave, 3 axis both directions |

## Mechanical Specifications

| Parameter | Unit | Specification |
|---|---|---|
| RF connectors | | SMA - female |
| Finish | | Gray Paint |
| Material | | Aluminum |


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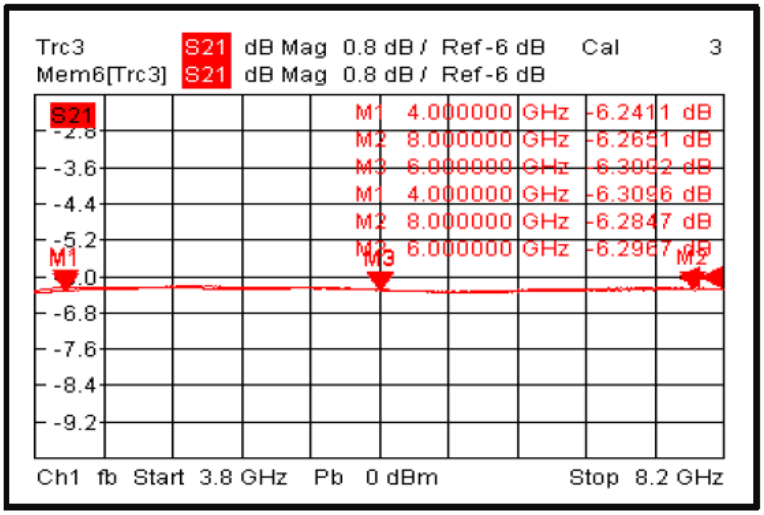
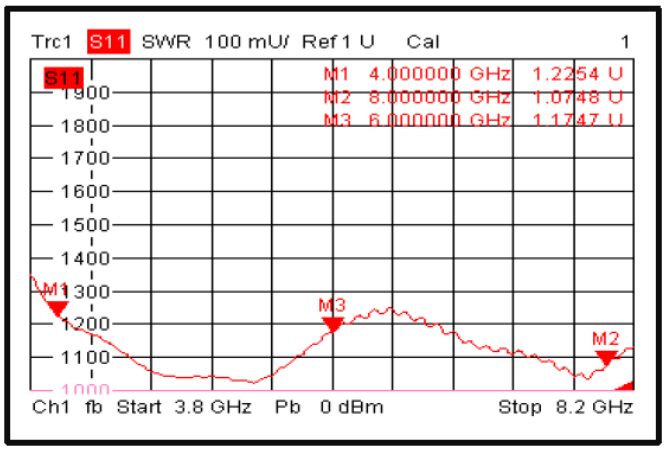
## Typical Performances

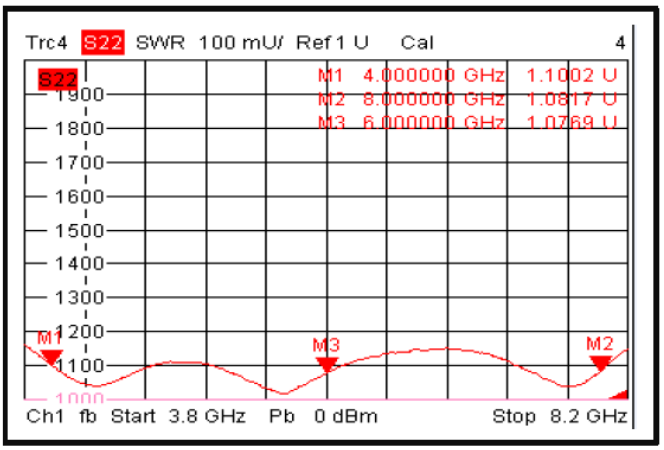
### Loss & Amplitude Unbalance



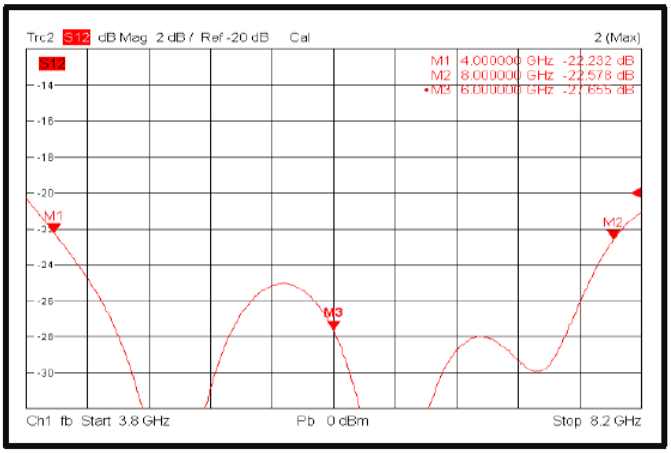

### Input VSWR



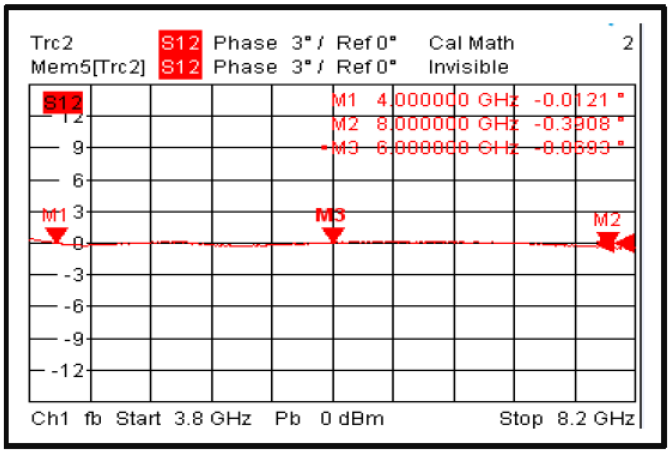

### Output VSWR




### Isolation




### Phase Unbalance





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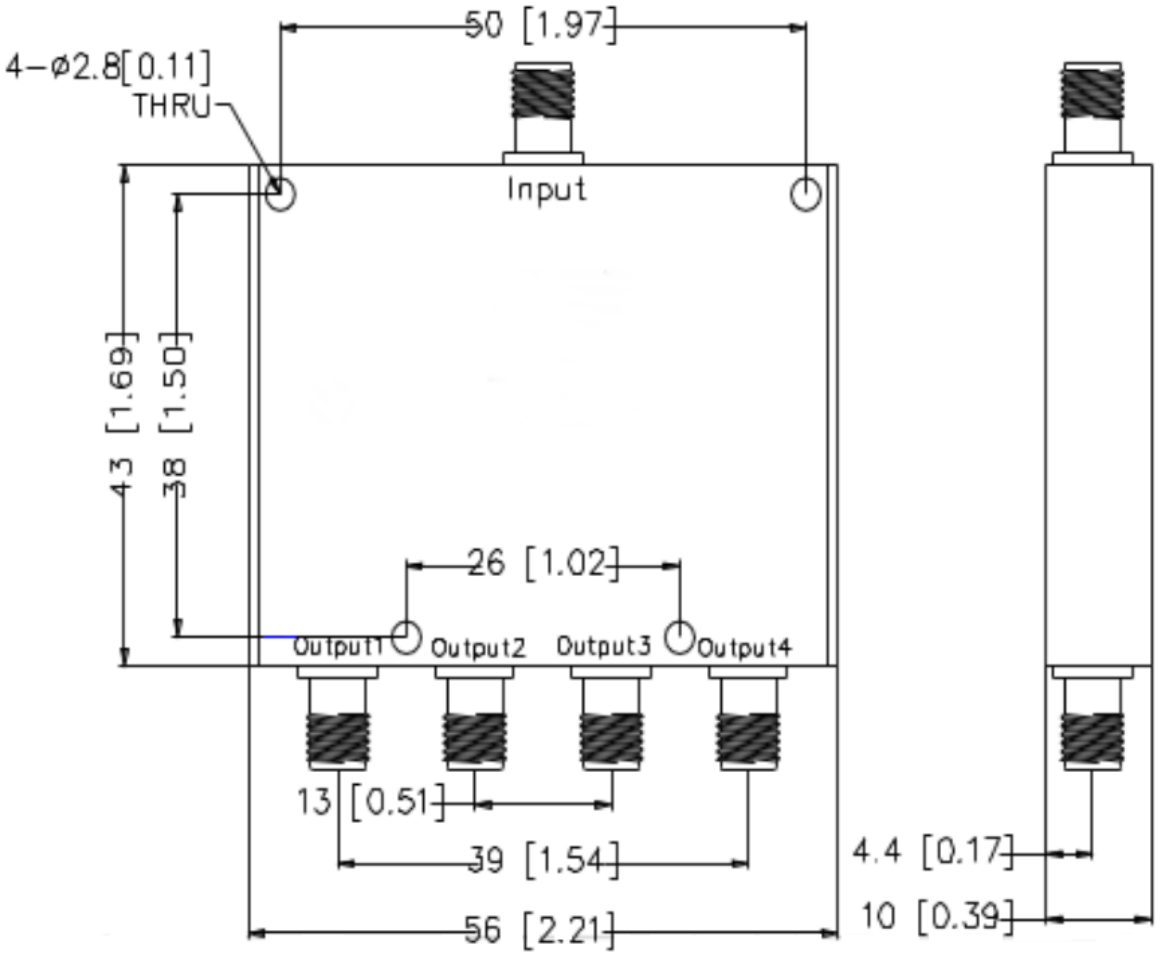
## Outline drawing

All dimensions in mm [inches]

Tolerance +/-0.2 [0.008]





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