



**General Description:**

MM-BPD-005180-03 is a 3-Way Power Divider operating over the 0.5 to 18.0 GHz frequency range. This model has a maximum insertion loss of 3.5 dB and has very good phase and amplitude match. The compact housing is outfitted with SMA female connectors.

**Features:**

- Ultra Wide Band: 0.5-18.0 GHz
- Ultra Broadband, Multi-Octave
- Superior Phase & Amplitude Balance

**Applications:**

- Radar Systems
- Communication Systems
- Receivers Systems

**Electrical Specifications :**

| Parameter         | Value |     |      | Units |
|-------------------|-------|-----|------|-------|
|                   | Min   | Typ | Max  |       |
| Frequency Range   | 0.5   |     | 18.0 | GHz   |
| Insertion Loss    |       |     | 3.5  | dB    |
| VSWR              |       |     | 1.8  | :1    |
| Isolation         | 14    |     |      | dB    |
| Amplitude Balance |       |     | ± .6 | dB    |
| Phase Balance     |       |     | ± 12 | °     |
| Power Handling    |       |     | 30   | W     |
| Impedance         |       | 50  |      | Ohms  |

**Mechanical Specifications:**

| Parameter            | Value                |
|----------------------|----------------------|
| Length               | 180 mm               |
| Width                | 50 mm                |
| Height               | 10 mm                |
| Material / Finishing | Aluminum/Black Paint |
| RF Connector         | SMA Female           |



Mountain Microwave

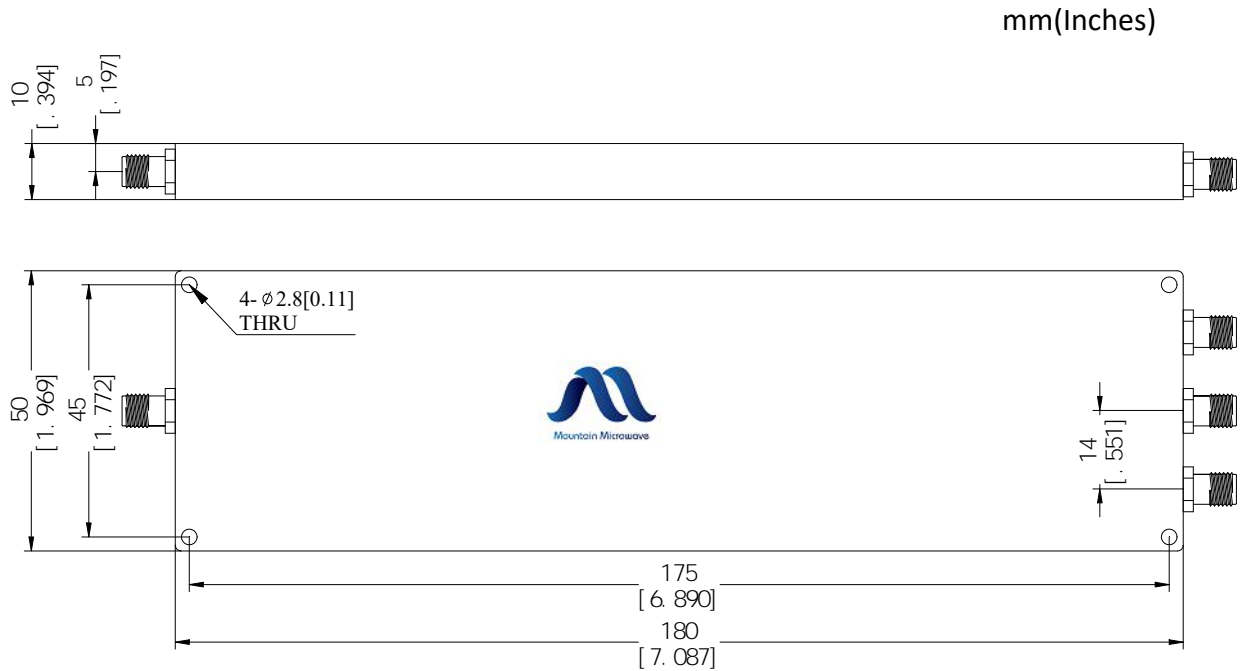
Focus on the future

**Broadband Power Divider**

MM-BPD-005180-03

0.5-18.0 GHz, 3-Way

**Outline Drawing:**



**Environmental Conditions:**

| Parameter               | Standard                            | Description                   |
|-------------------------|-------------------------------------|-------------------------------|
| Operational Temperature |                                     | -45°C~+85°C                   |
| Storage Temperature     |                                     | -55°C~+125°C                  |
| Random Vibration        | MIL-STD-883K, Method 2026, Cond. IB | 50 - 2000 Hz, 7.3 Grms        |
| Humidity                | MIL-STD-202, Method 103B, Cond. B   | 100% RH at 35c, 95%RH at 40°C |
| Altitude                | MIL-STD-883K, Method 1001, Cond. C  | 50,000 feet                   |

Please note, all information contained in this data sheet is subject to change without notice.

ver 1.0 0618