



### 30W 2-4GHz 0° 2-Way Power Divider



- High power handle capability up to 30W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Low temperature coefficient material offer stable performance over temperature
- Aerospace and military application
- LMDS multi-carrier operation
- High peak to average handle capability
- All specifications can be modified upon request

#### Electrical Specifications

| Parameters               | Min.          | Typ.       | Max. | Units  |
|--------------------------|---------------|------------|------|--------|
| Frequency Range          | 2             |            | 4    | GHz    |
| Nominal Splitter Loss    |               | 3          |      | dB     |
| Insertion Loss           |               | 0.25       | 0.35 | dB     |
| Isolation                | 20            | 23         |      | dB     |
| Input VSWR               |               | 1.2        | 1.25 |        |
| Output VSWR              |               | 1.15       | 1.2  |        |
| Amplitude Unbalance      |               | 0.1        | 0.2  | dB     |
| Phase Unbalance          |               | 1          | 2    | deg    |
| Power Rating             | Forward Power | 30         |      | W      |
|                          | Reverse Power | 2          |      | W      |
|                          | Peak Power    | 300        |      | W      |
| Impedance                |               | 50         |      | Ohms   |
| Weight                   |               | 0.78       |      | ounces |
| Operating Temperature    |               | -45 to +85 |      | °C     |
| Input / Output Connector | SMA-Female    |            |      |        |
| Material                 | Aluminum      |            |      |        |
| Finishing                | Gray Paint    |            |      |        |

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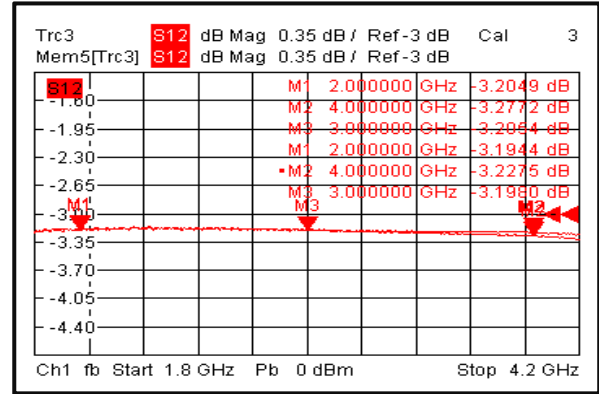


### Environment specifications

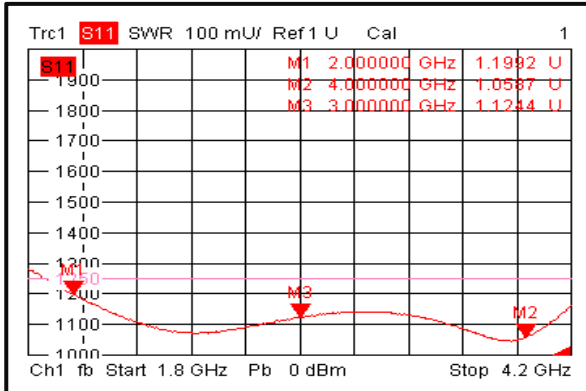
|                              |   |
|------------------------------|---|
| Operational Temperature (°C) | -45 to +85  |
| Storage Temperature (°C)     | -55 to +125   |
| Altitude                     | 30,000 ft. (Epoxy Seal Controlled environment)<br>60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) ( Optional ) |
| Vibration                    | 25g rms (15 degree 2KHz) endurance, 1 hour per axis   |
| Humidity                     | 100% RH at 35c, 95%RH at 40 deg c   |
| Shock                        | 20G for 11msc half sin wave,3 axis both directions  |

### Typical Performance Plots

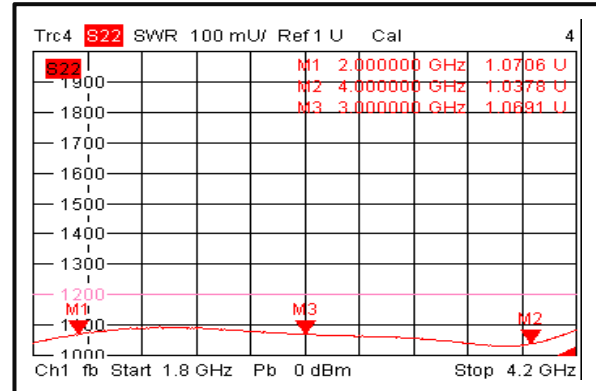
#### Loss & Amplitude Unbalance



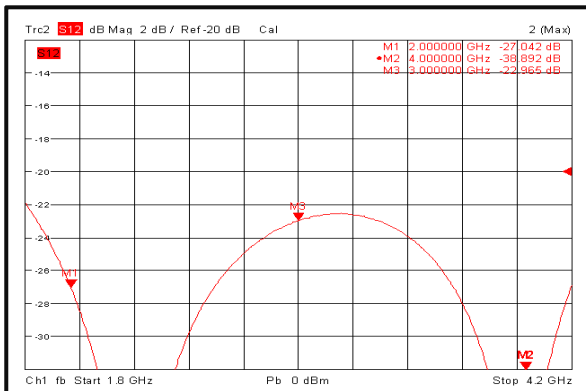
### Input VSWR



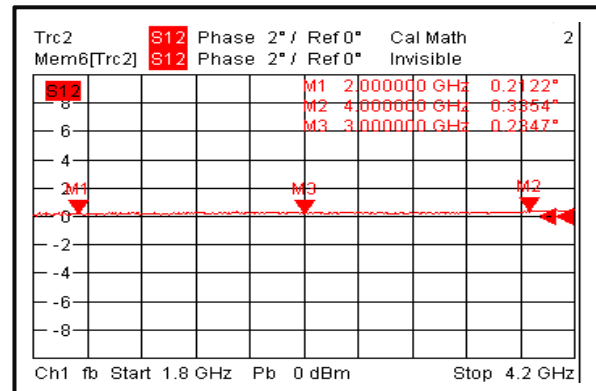
### Output VSWR



### Isolation



### Phase Unbalance

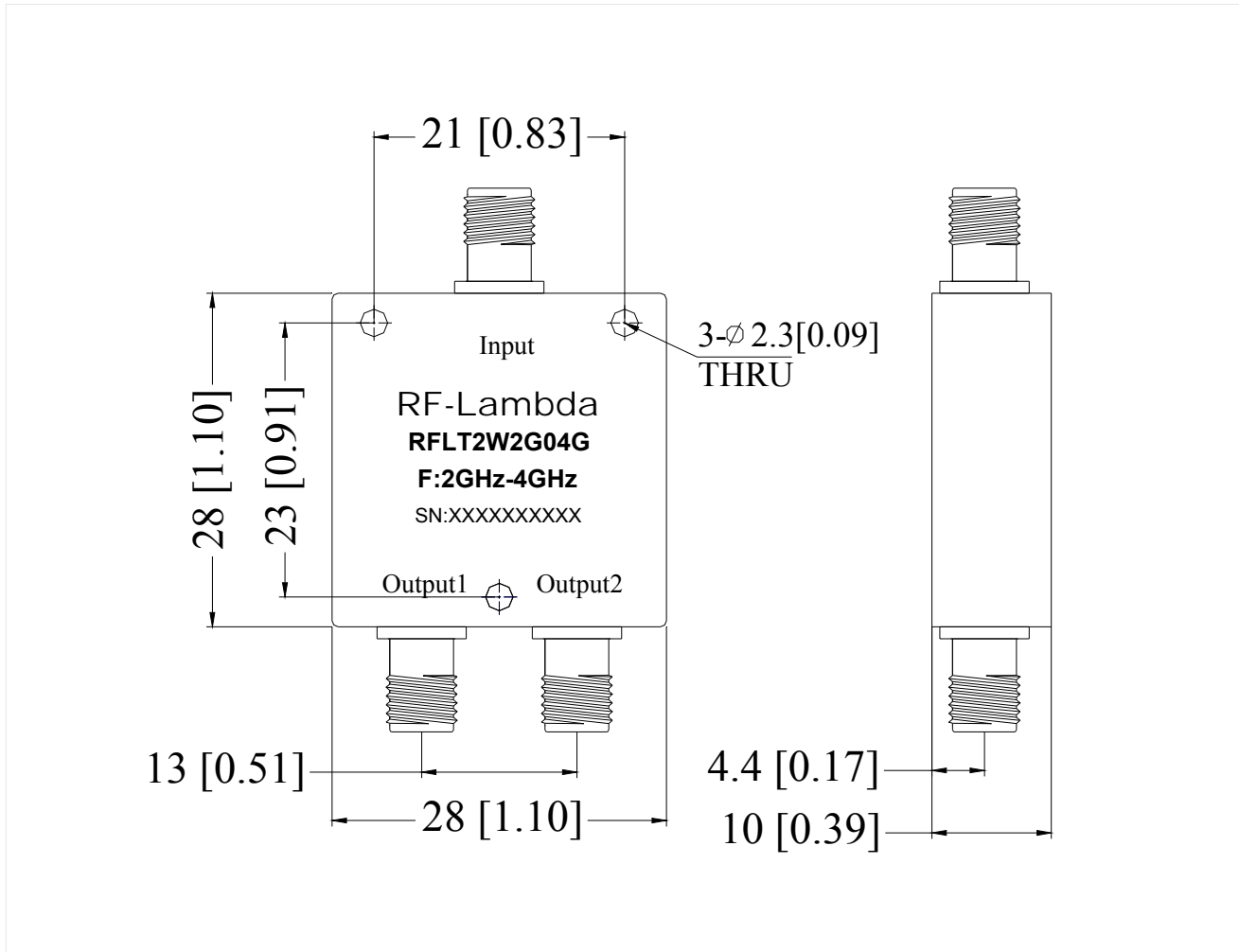




### Outline Drawing:

All Dimensions in mm (inches)

Tolerance  $\pm 0.2$  (0.008)



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### Important Notice

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