EP2D-1200R-M-001

SURFACE MOUNT 2-WAY POWER DIVIDER

APPLICATIONS
- Signal splitting/combining
- Intermodulation distortion measurements
- Signal distribution for antenna arrays
- Antenna beam forming

FEATURES
- Broadband 6 - 18 GHz
- Surface Mountable
- Low insertion loss
- High isolation
- Low phase unbalance
- RoHS compliant

SPECIFICATIONS

TABLE 1: TYPICAL SPECIFICATIONS*

<table>
<thead>
<tr>
<th>FREQ (GHz)</th>
<th>POWER† (W)</th>
<th>PART NUMBER</th>
<th>EXCESS LOSS (dB)</th>
<th>PHASE BALANCE (Deg)</th>
<th>ISOLATION Typical (dB)</th>
<th>INPUT RL (dB)</th>
<th>OUTPUT RL (dB)</th>
<th>AMPLITUDE BALANCE (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-18</td>
<td>1</td>
<td>EP2D-1200R-M-001</td>
<td>0.7</td>
<td>± 5</td>
<td>20</td>
<td>15</td>
<td>20</td>
<td>± 0.2</td>
</tr>
</tbody>
</table>

* Units tested with small signal using Electro-Photonics test board at 25°C. Load VSWR not to exceed 1.2:1. Base temperature not to exceed 85°C. Specifications subject to change without notice.

MECHANICAL OUTLINE
TYPICAL PERFORMANCE

**Insertion Loss dB**

- Frequency (GHz):
  - 6
  - 9
  - 12
  - 15
  - 18
- Insertion Loss dB:
  - -5
  - -4.5
  - -4
  - -3.5
  - -3
  - -2.5
  - -2
  - -1.5
  - -1
  - -0.5
  - 0

**Isolation dB**

- Frequency (GHz):
  - 6
  - 9
  - 12
  - 15
  - 18
- Isolation dB:
  - -30
  - -25
  - -20
  - -15
  - -10
  - -5
  - 0

**RL Input dB**

- Frequency (GHz):
  - 6
  - 9
  - 12
  - 15
  - 18
- RL Input dB:
  - -60
  - -55
  - -50
  - -45
  - -40
  - -35
  - -30
  - -25
  - -20
  - -15
  - -10
  - -5
  - 0

**RL Output dB**

- Frequency (GHz):
  - 6
  - 9
  - 12
  - 15
  - 18
- RL Output dB:
  - -40
  - -35
  - -30
  - -25
  - -20
  - -15
  - -10
  - -5
  - 0
MOUNTING FOOTPRINT

Recommended PCB layout on 10 mil thick RO4350B material. Land pattern design must be taken into consideration when using a different thickness and/or dielectric constant in order to achieve optimal performance.

ORDERING INFO*

* Consult sales (sales@electro-photonics.com) for custom configuration, size, footprint, and/or specifications. Tape & Reel available upon request (with minimum order quantities).

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>FREQUENCY</th>
<th>PLATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP2D-1200R-M-001</td>
<td>MHz</td>
<td>M = THIN FILM FINISH</td>
</tr>
</tbody>
</table>

The EP2D-12000R-M-001 is a lead free, RoHS compliant product.