

## Power Divider/Combiner LT2-588P-200W

MTS-No.: 31700

Page 1 from 3

### Description

This broadband power divider/combiner is specially designed for high-power applications.

This product supports continuously non-coherent combining of two signals with different frequencies, phases and power levels.

Mismatches or open connections on the adjacent ports are also tolerated.



### Technical data:

#### 1 RF-specifications:

|                                                                 |                                      |         |         |
|-----------------------------------------------------------------|--------------------------------------|---------|---------|
| 1.1 Divider/combiner type                                       | LT2, 2-way                           |         |         |
| 1.2 Impedance                                                   | 50 $\Omega$                          |         |         |
| 1.3 Input power<br>@ common port<br>@ output ports <sup>1</sup> | 200 W max.<br>50 W max. non-coherent |         |         |
| 1.4 Frequency range                                             | 30 - 600 MHz                         |         |         |
|                                                                 | min.                                 | typ.    | max.    |
| 1.5 VSWR in/out                                                 |                                      | 1.10    | 1.25    |
| 1.6 Insertion loss (+3 dB)                                      |                                      | 0.25 dB | 0.45 dB |
| 1.7 Isolation (see plot)                                        | 25 dB                                | 40 dB   |         |
| 1.8 Amplitude balance                                           |                                      | 0.05 dB | 0.15 dB |
| 1.9 Phase balance                                               |                                      | 0.5°    | 2.5°    |

#### 2 Connections:

|                        |             |
|------------------------|-------------|
| 2.1 RF-in- and outputs | 3x N female |
|------------------------|-------------|

#### 3 General specifications:

|                                             |                                     |
|---------------------------------------------|-------------------------------------|
| 3.1 Operating temperature                   | -55 °C - +75 °C                     |
| 3.2 Reference temperature of specifications | +25 °C                              |
| 3.3 Ingress protection <sup>2</sup>         | IP67                                |
| 3.4 Dimensions (without connections)        | 97.8 mm x 96.5 mm x 28.2 mm (LxWxH) |
| 3.5 Case style                              | Milled aluminium enclosure          |
| 3.6 Colour                                  | SurTec650 (Chrome alloy)            |
| 3.7 Weight                                  | 550 grams                           |

#### 4 Delivered parts:

LT2-588P-200W  
Datasheet

#### 5 Comments:

|                |           |
|----------------|-----------|
| Warranty       | 12 months |
| RoHS-compliant | Yes       |

#### 6 Recommended accessories:

RF-cables

Notes: 1. The power rating can only be achieved at a maximum housing temperature of 60 °C with a suitable heat sink.  
2. IP certification only with waterproof RF connectors.

## Power Divider/Combiner LT2-588P-200W

MTS-No.: 31700

Page 2 from 3

### Typical measurements:

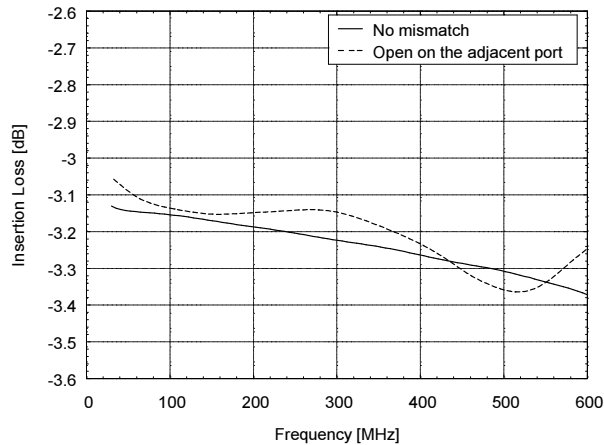


Fig. 1: Common port to output port insertion loss

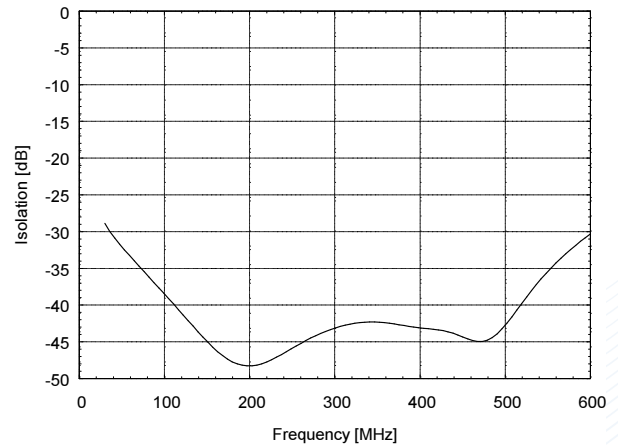


Fig. 2: Isolation between output ports

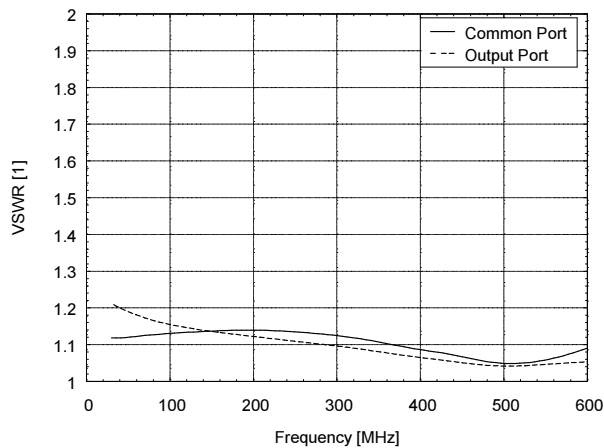


Fig. 3: VSWR for common and output ports

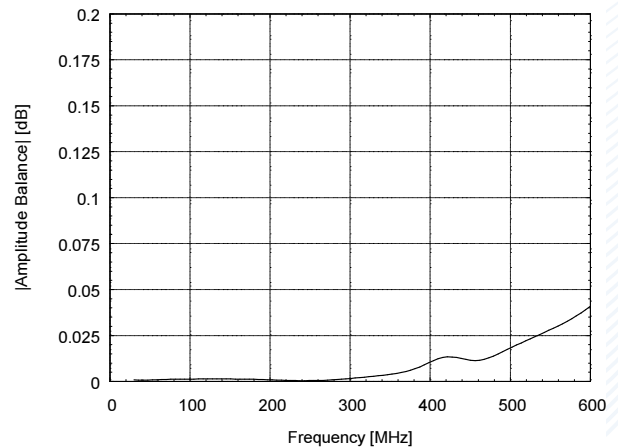


Fig. 4: Amplitude balance between output ports

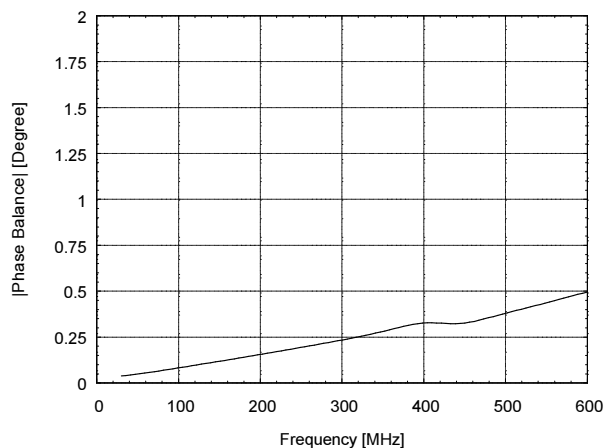


Fig. 5: Phase balance between output ports

**Power Divider/Combiner LT2-588P-200W**

**MTS-No.: 31700**

Page 3 from 3

**Views:**

