

Power Divider LT4-588P-4G

MTS-No.: 23984

Description

The Power Dividers of this series are designed to work between 400 MHz and 4000 MHz. They cover for example GSM, DECT, UMTS, Bluetooth and all LTE frequency bands (4G).

These units are Wilkinson dividers and can also be used as combiners.



Technical data:

1 RF-specifications:

| | | | | |
|-----|------------------------|--------------------|-------------|-------------|
| 1.1 | Divider type | LT4, 4-way | | |
| 1.2 | Impedance | 50 Ω | | |
| 1.3 | Input power | 10 W max. | | |
| | @ common port | 1 W max. each port | | |
| | @ output ports 1 - 4 | | | |
| 1.4 | Frequency range | 400 - 4000 MHz | | |
| 1.5 | VSWR in | min. | typ. | max. |
| | @ 700 - 3600 MHz | | 1.2 | 1.4 |
| | VSWR out | | | |
| | @ 700 - 3600 MHz | | 1.15 | 1.35 |
| 1.6 | Insertion loss (+6 dB) | | | |
| | @ 3600 MHz | | 1.25 dB | 1.5 dB |
| 1.7 | Isolation (see plot) | | | |
| | @ 700 - 3600 MHz | 21 dB | 25 dB | |
| 1.8 | Amplitude balance | | ±0.1 dB | ±0.3 dB |
| 1.9 | Phase balance | | ±1.0° | ±3.0° |

2 Connections:

| | | |
|-----|--------------------|--|
| 2.1 | RF-in- and outputs | 5x N female (5x SMA female available @ MTS-No.: 23983) |
|-----|--------------------|--|

3 General specifications:

| | | |
|-----|---|--------------------------------|
| 3.1 | Operating temperature | -40 °C - +85 °C |
| 3.2 | Reference temperature of specifications | +25 °C |
| 3.3 | Dimensions (without connections) | 100 mm x 79 mm x 22 mm (LxWxH) |
| 3.4 | Case style | Milled aluminium enclosure |
| 3.5 | Colour | SurTec650 (Chrome alloy) |
| 3.6 | Weight | 460 grams |

4 Delivered parts:

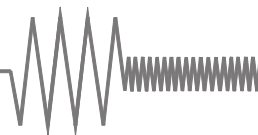
LT4-588P-4G
Datasheet

5 Comments:

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

6 Recommended accessories:

RF-cables
Attenuators series PAH



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Typical measurements:

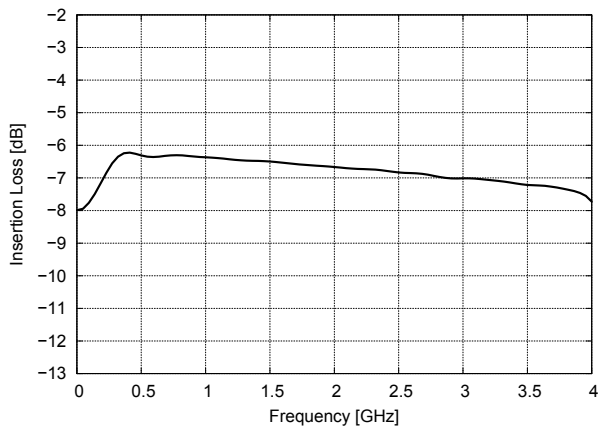


Fig. 1: Common port to output port insertion loss

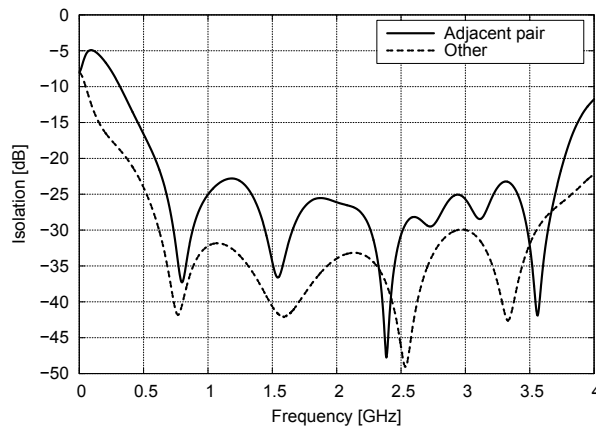


Fig. 2: Isolation between output ports

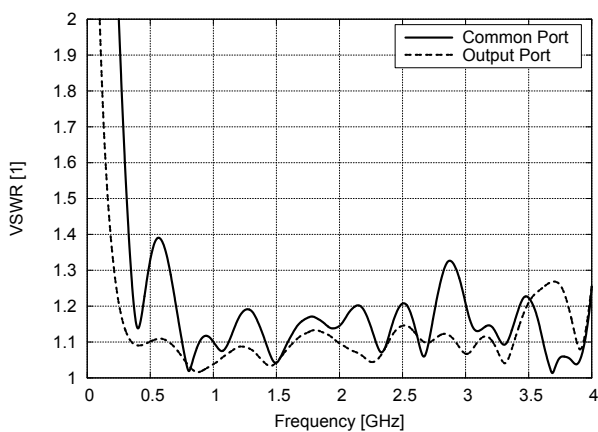


Fig. 3: VSWR for common and output ports

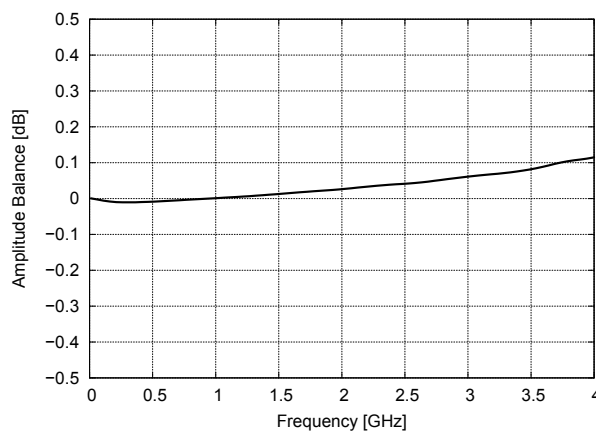


Fig. 4: Amplitude balance between output ports

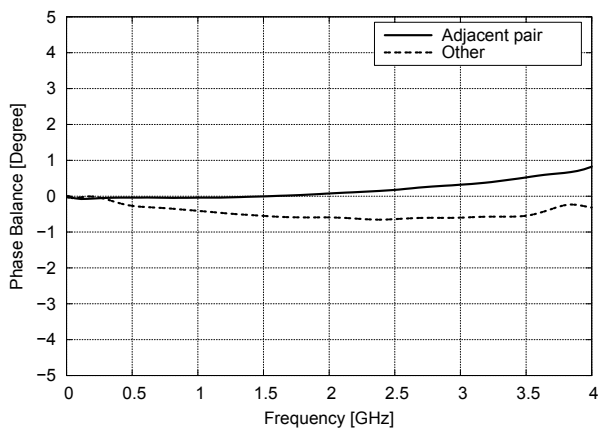
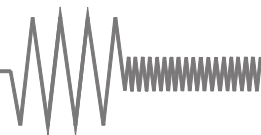


Fig. 5: Phase balance between output ports



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Views:

