

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.

Due to its robust design, the LT2-588P-200W can be used even under the most difficult conditions.



Technical data:

1 RF-specifications:

1.1	Divider/combiner type	LT2, 2-way		
1.2	Impedance	50 Ω		
1.3	Input power @ common port @ output ports ¹	200 W max. 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
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3 General specifications:

3.1	Operating temperature	-55 °C - +75 °C
3.2	Reference temperature of specifications	+25 °C
3.3	Ingress protection ²	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.

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MTS-No.: 31700

Page 2 from 3

Typical measurements:

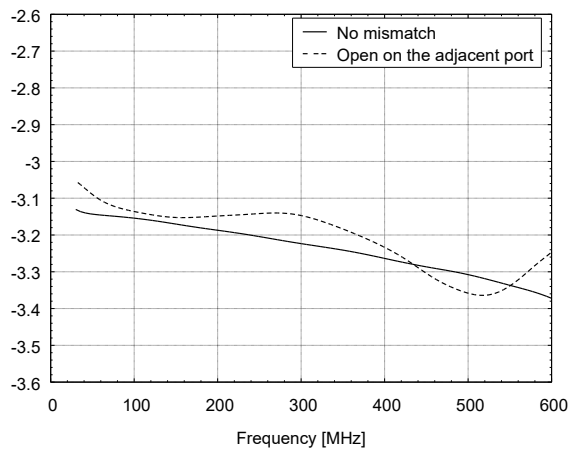


Fig. 1: Common port to output port insertion loss

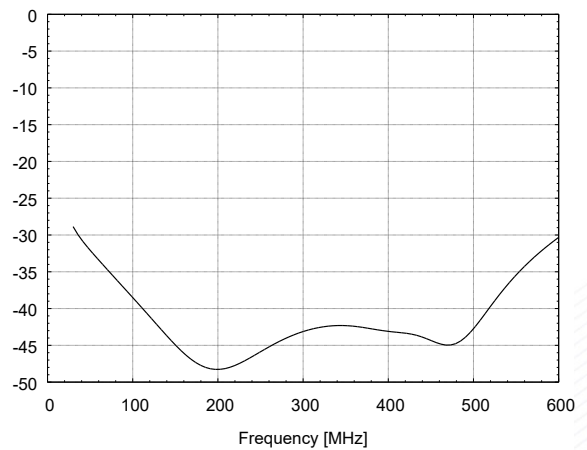


Fig. 2: Isolation between output ports

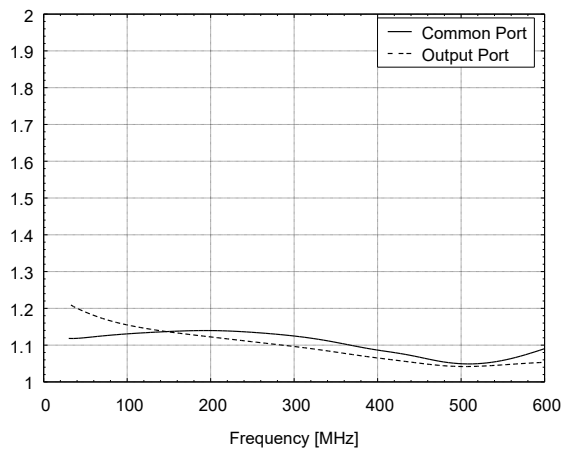


Fig. 3: VSWR for common and output ports

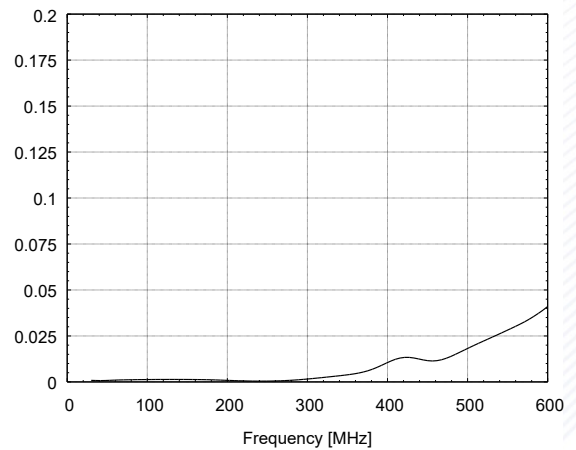


Fig. 4: Amplitude balance between output ports

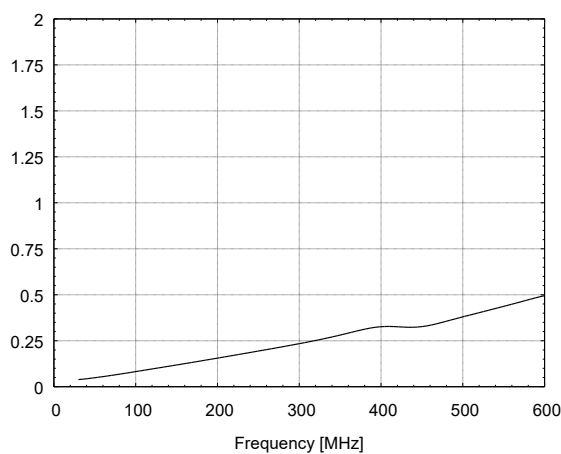


Fig. 5: Phase balance between output ports

Power Divider/Combiner LT2-588P-200W

MTS-No.: 31700

Page 3 from 3

Views:

