Description

This broadband power divider/combiner is specially designed for high-power military 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:

			min.	typ.	max.
1.1	Divider/combiner type	LT2, 2-way			
1.2	Impedance	50 Ω			
1.3	Input power @ common port	200 W max.			
	@ output ports[1]	50 W max. non-coherent			
1.4	Frequency range	30 - 600 MHz			
1.5	VSWR in/out			1.15	1.25
1.6	Insertion loss (+3 dB)			0.25 dB	0.50 dB
1.7	Isolation (see plot)		25 dB	35 dB	
1.8	Amplitude balance			0.1 dB	0.2 dB
1.9	Phase balance			0.5°	3.0°

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[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	555 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.

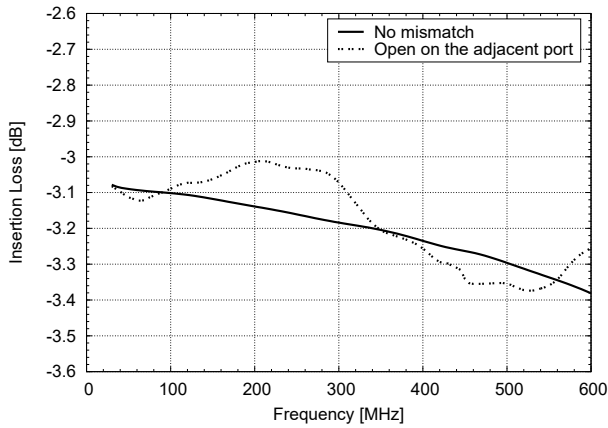**Typical measurements:**

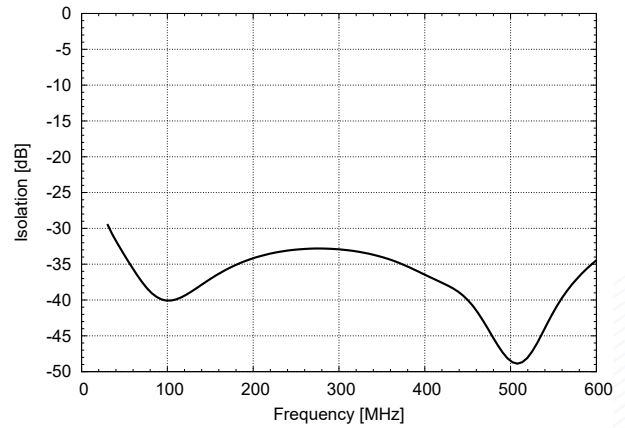Fig. 1: Common port to output port insertion loss

Fig. 2: Isolation between output ports
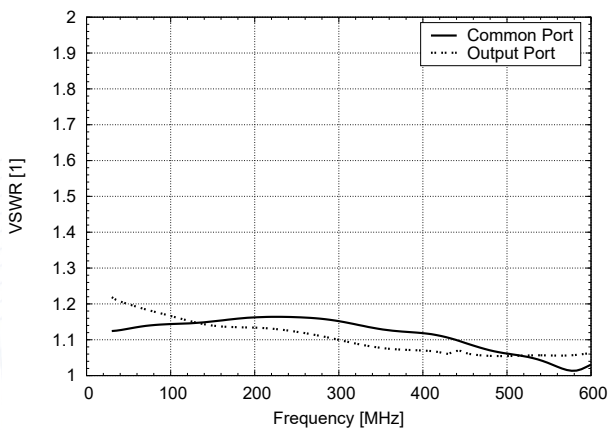

Fig. 3: VSWR for common and output ports

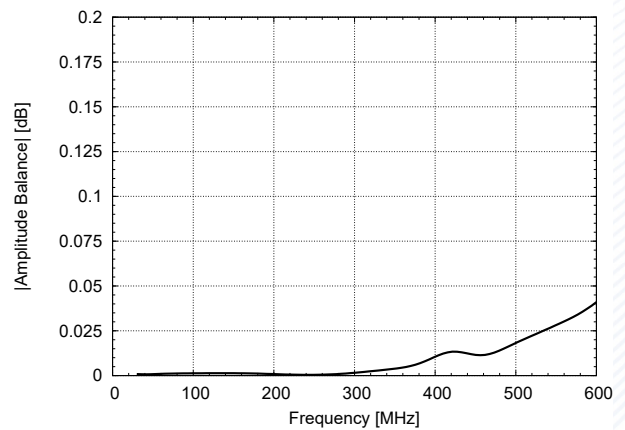Fig. 4: Amplitude balance between output ports

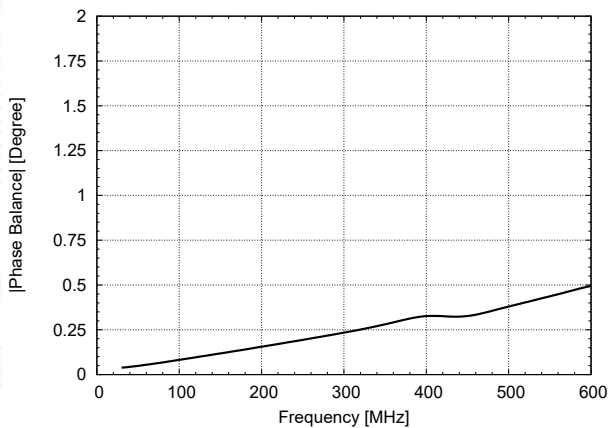Fig. 5: Phase balance between output ports

Views: