

Power Divider LT12-544P-1G

MTS-No.: 29835

Description

The Power Dividers of this series are designed to work between 20 MHz and 1000 MHz. They cover for example radio and video broadcast, TETRA and LTE frequency bands up to 1 GHz.

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



Technical data:

1 RF-specifications:

1.1	Divider type	LT12 ,12-way		
1.2	Impedance	50 Ω		
1.3	Input power @ common port @ output ports 1 - 12	1 W max. 0.1 W max. each port		
1.4	Frequency range	20 - 1000 MHz		
1.5	VSWR in @ 20 - 500 MHz @ 500 - 1000 MHz	min.	typ.	max.
			1.25 1.45	1.6 1.8
	VSWR out @ 20 - 500 MHz @ 500 - 1000 MHz		1.2 1.1	1.4 1.3
1.6	Insertion loss (+10.8 dB) @ 20 MHz @ 500 MHz @ 1000 MHz		0.7 dB	1.2 dB
			1.4 dB	2.2 dB
			2.4 dB	3.2 dB
1.7	IL derating / 20 MHz		0.04 dB	
1.8	Isolation (see plot) @ 20 - 500 MHz @ 500 - 1000 MHz	20 dB	25 dB	
		16 dB	20 dB	
1.9	Amplitude balance @ 20 - 500 MHz @ 500 - 1000 MHz		0.1 dB	0.4 dB
			0.2 dB	0.7 dB
1.10	Phase balance @ 20 - 500 MHz @ 500 - 1000 MHz		2.0°	6.0°
			4.0°	10.0°

2 Connections:

2.1	RF-in- and outputs	13x SMA female
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3 General specifications:

3.1	Operating temperature	-40 °C - +85 °C
3.2	Reference temperature of specifications	+25 °C
3.3	Dimensions (without connections)	103 mm x 103 mm x 13.5 mm (LxWxH)
3.4	Case style	Milled aluminium enclosure
3.5	Colour	SurTec650 (Chrome alloy)
3.6	Weight	225 grams

4 Delivered parts:

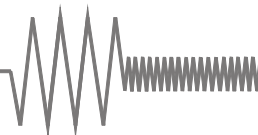
LT12-544P-1G
Datasheet

5 Comments:

Warranty	12 months
RoHS-compliant	Yes

6 Recommended accessories:

RF-cables
Attenuators series PAH



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Typical measurements:

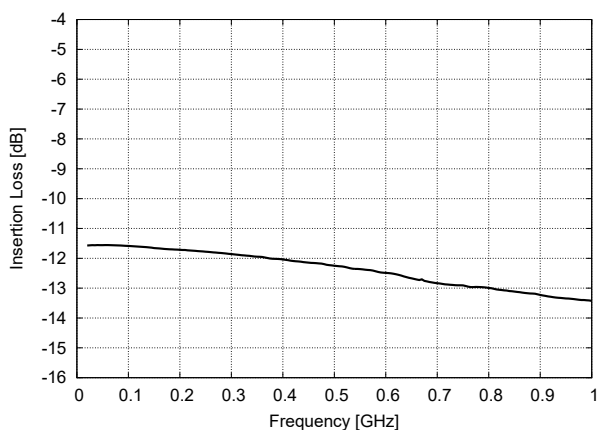


Fig. 1: Common port to output port insertion loss

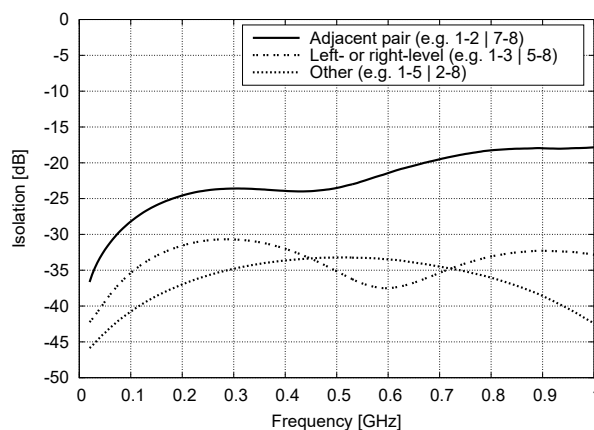


Fig. 2: Isolation between output ports

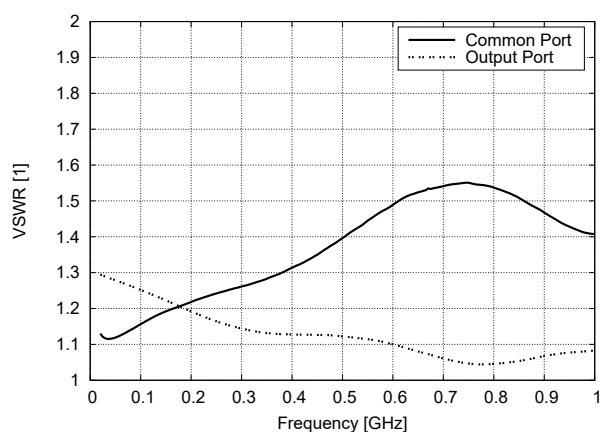


Fig. 3: VSWR for common and output ports

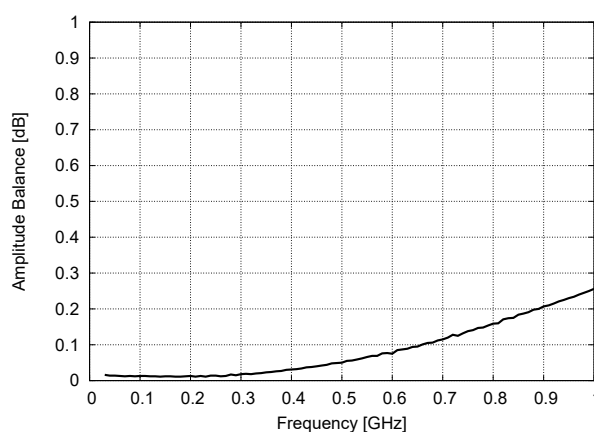


Fig. 4: Amplitude balance between output ports

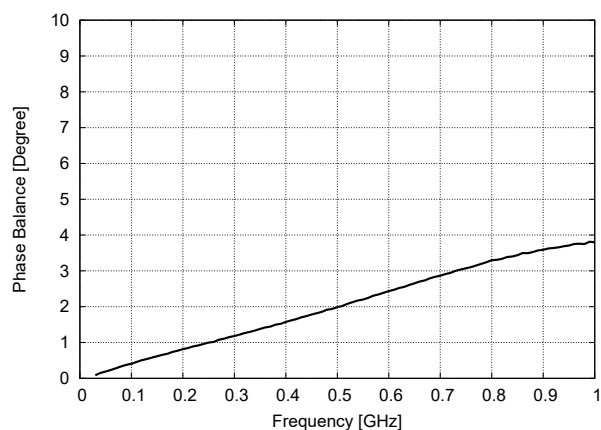


Fig. 5: Phase balance between output ports

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Views:

