

Power Divider LT8-544P-1G

MTS-No.: 31190

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Description

The Power Dividers of this series are designed to work between 10 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	LT8, 8-way		
1.2 Impedance	50 Ω		
1.3 Input power (see table) @ common port @ output ports	1 W max. @ VSWR \leq 2.0 : 1 0.1 W max. each port		
1.4 Frequency range	10 - 1000 MHz		
	min.	typ.	max.
1.5 VSWR in		1.20	1.50
VSWR out		1.10	1.25
1.6 Insertion loss (+9 dB)		2.5 dB	5.0 dB
1.7 IL derating / 200 MHz		0.4 dB	
1.8 Isolation (see plot)	20 dB	25 dB	
1.9 Amplitude balance		0.2 dB	1.0 dB
1.10 Phase balance		2.0°	10.0°

2 Connections:

2.1 RF-in- and outputs	9x 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)	180 mm x 55 mm x 11 mm (LxWxH)
3.4 Case style	Milled aluminium enclosure
3.5 Colour	SurTec650 (Chrome alloy)
3.6 Weight	250 grams

4 Delivered parts:

LT8-544P-1G
Datasheet

5 Comments:

Warranty	12 months
RoHS-compliant	Yes

6 Recommended accessories:

RF-cables
Attenuators series PAH

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Typical measurements:

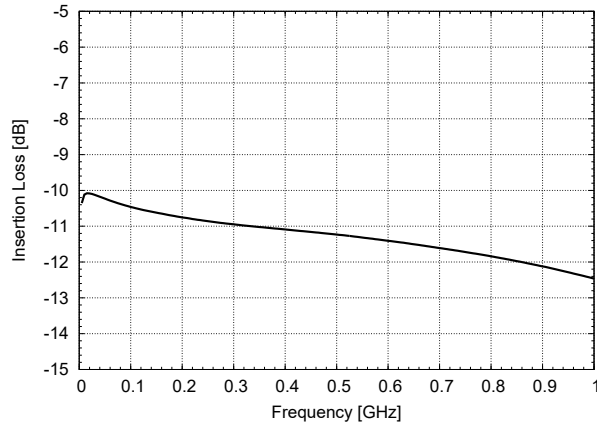


Fig. 1: Common port to output port insertion loss

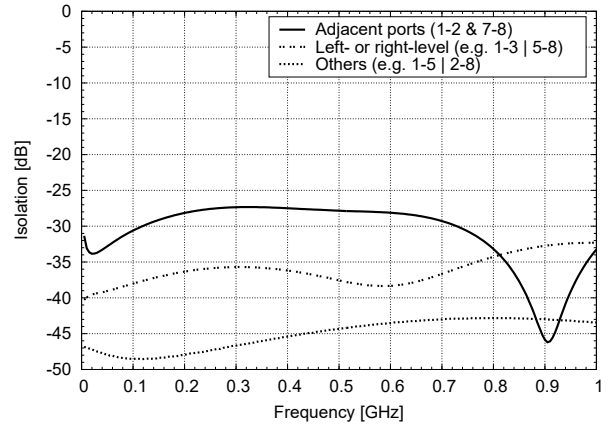


Fig. 2: Isolation between output ports

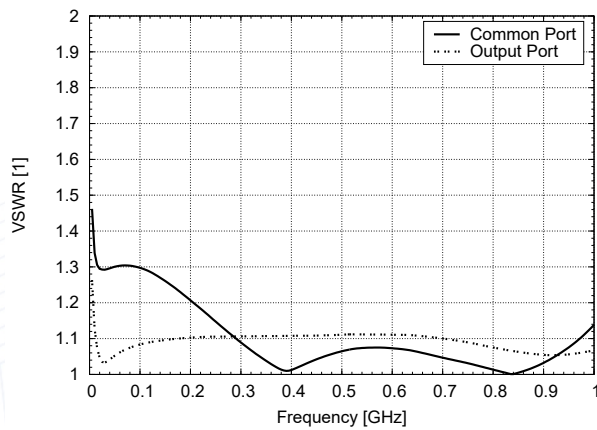


Fig. 3: VSWR for common and output ports

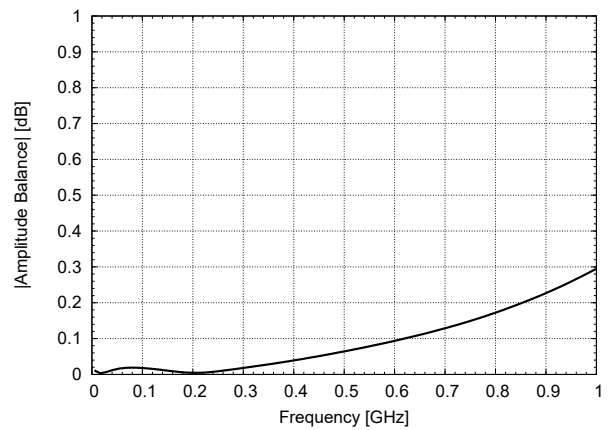


Fig. 4: Amplitude balance between output ports

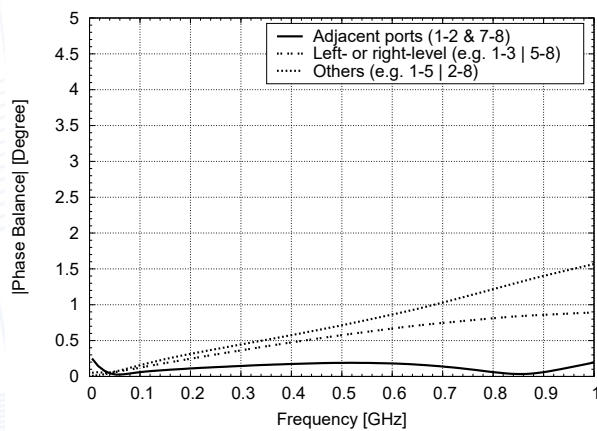


Fig. 5: Phase balance between output ports

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