

Power Divider LT2-544P-8G

MTS-No.: 30010

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Description

The LT2-544P-8G is a ultra-wideband 2-way 0° high-power divider/combiner which provides up to 40 W power handling as a divider.

The coverage from 500 MHz to 8 GHz supports a wide range of applications including GSM, Bluetooth, Wi-Fi 7 and all LTE+ as well as 5G frequency bands.

Its unique design maintains a very low insertion loss, minimizing power dissipation and excellent signal power transmission from input to output.



Technical data:

1 RF-specifications:

1.1 Divider type	LT2, 2-way		
1.2 Impedance	50 Ω		
1.3 Input power (see table) @ common port @ output ports 1, 2	40 W max. @ VSWR $\leq$ 2.0 : 1 1 W max. each port		
1.4 Frequency range	500 - 8000 MHz		
1.5 VSWR in	min.	typ.	max.
@ 700 - 8000 MHz		1.10	1.30
@ 500 - 700 MHz		1.35	1.60
VSWR out			
@ 500 - 7200 MHz		1.05	1.25
@ 7200 - 8000 MHz		1.30	1.60
1.6 Insertion loss (+3 dB) @ 500 - 4000 MHz @ 4000 - 8000 MHz		0.25 dB 0.45 dB	0.50 dB 0.70 dB
1.7 IL derating / 200 MHz		0.01 dB	
1.8 Isolation @ 700 - 7200 MHz @ 500 - 8000 MHz	20 dB 13 dB	25 dB 18 dB	
1.9 Amplitude balance @ 500 - 4000 MHz @ 4000 - 8000 MHz		0.05 dB 0.10 dB	0.10 dB 0.20 dB
1.10 Phase balance @ 500 - 4000 MHz @ 4000 - 8000 MHz		0.5° 1.0°	1.0° 2.0°

2 Connections:

2.1 RF-in- and outputs	3x SMA female (3x N female available @ MTS-No.: 30011)
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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)	70 mm x 49 mm x 16 mm (LxWxH)
3.4 Case style	Milled aluminium enclosure
3.5 Colour	SurTec650 (Chrome alloy)
3.6 Weight	145 grams

4 Delivered parts:

LT2-544P-8G
Datasheet

5 Comments:

Warranty	12 months
RoHS-compliant	Yes

6 Recommended accessories:

RF-cables
Attenuators series PAH

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Typical measurements:

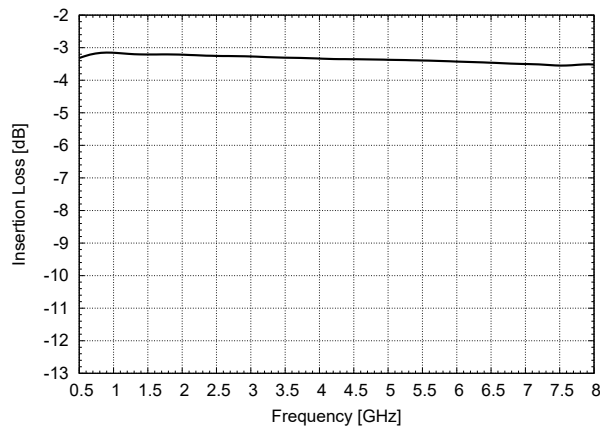


Fig. 1: Common port to output port insertion loss

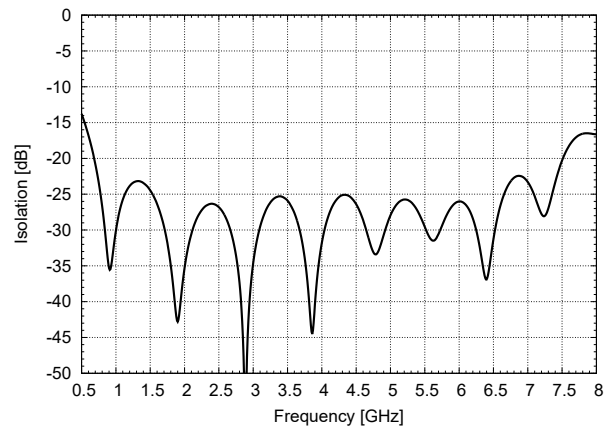


Fig. 2: Isolation between output ports

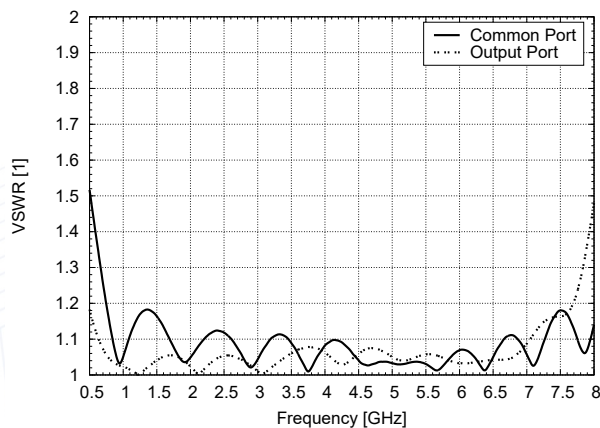


Fig. 3: VSWR for common and output ports

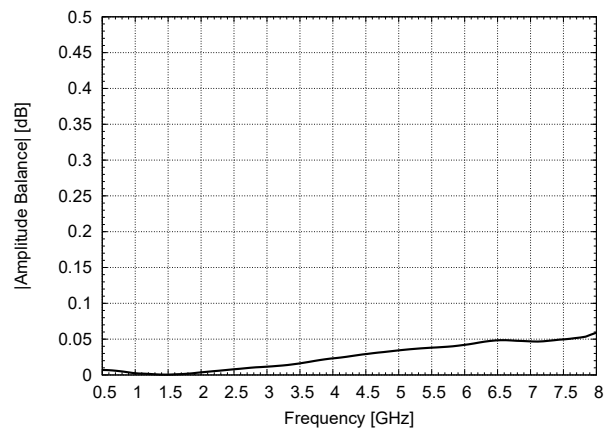


Fig. 4: Amplitude balance between output ports

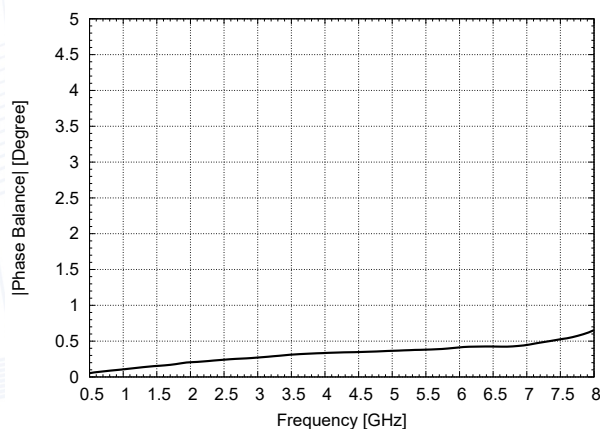


Fig. 5: Phase balance between output ports

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Power ratings:

2-way Power Divider input ratings (common port)		
Load VSWR	In-phase (0°)	Out-of-phase (180°)
$\leq 1.2 : 1$	40 Watts	40 Watts
$\leq 2.0 : 1$	40 Watts	20 Watts
∞	20 Watts	2 Watts
2-way Power Combiner input ratings (output ports)		
Input signals	0° Phase Difference	180° Phase Difference
Coherent	2 x 20 Watts	2 x 1 Watt
Non-coherent	2 x 2 Watts	

Views:

