

Splitter Unit LTLE-12/1-588P

MTS-No.: 24164

Application

This Splitter Unit type LTLE-12/1-588P has been especially developed for a frequency range of 500 MHz up to 2900 MHz. It will be used as antenna distribution network in the mobile communication test equipment.

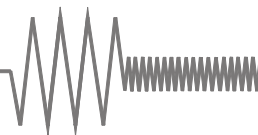
Description

This Splitter Unit with 12 inputs and 1 output is equipped with two stages of combiners of the type 4/1 to get this configuration of inputs and the output. The RF-power is 30 dBm max. @ each input, 33 dBm max. sum for all coherent input signals or 37 dBm max. @ the output. The in- and outputs can be combined with external components as attenuators and terminations to a complex network.



Characteristics

- ▶ Usable for all frequencies between 500 MHz and 2900 MHz
- ▶ Two stages of combiners of the type 4/1 to get 12 inputs and 1 output
- ▶ 30 dBm max. @ each input
- ▶ 33 dBm max. sum for all coherent input signals
- ▶ 37 dBm max. @ the output
- ▶ 19" rack mount case with 2 HU
- ▶ High quality materials and components for extended durability
- ▶ Splitter Units can be designed according to customer's individual requirements



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Configuration:

two stages of combiners of the type 4/1 to get 12 inputs and 1 output

Technical data:

1 RF-specifications:

1.1 Impedance	50 Ω		
1.2 Input power	37 dBm max. @ the output 30 dBm max. @ each input 33 dBm max. sum for all coherent input signals		
1.3 Frequency range	500 MHz - 2900 MHz		
1.4 RF-connections	N female		
1.5 VSWR in @ 500 - 2900 MHz	min.	typ.	max.
		1.15	1.3
VSWR out @ 700 - 2800 MHz		1.25	1.4
@ 500 - 2900 MHz		1.5	1.8
1.6 Insertion loss (+12 dB) @ 2900 MHz		2.2 dB	3.0 dB
1.7 Isolation (see plot) @ 700 - 2900 MHz	20 dB	24 dB	
@ 500 - 2900 MHz	15 dB	18 dB	
1.8 Amplitude balance		±0.15 dB	±0.4 dB
1.9 Phase balance		±2.0°	±6.0°

2 Connections:

2.1 Front side	-
2.2 Rear side	RF-connections of the inputs RF-connection of the output

3 General specifications:

3.1 Operating temperature	0 °C - +50 °C
3.2 Reference temperature for specifications	+25 °C
3.3 Dimensions	19"-unit x 2 HU x 150 mm (dimensions without handles and connections)
3.4 Colour	Front side colourless anodized Rear side chrome alloy (SurTec 650)
3.5 Weight	3.8 kg

4 Delivered parts:

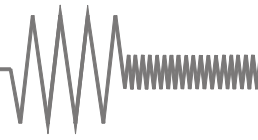
LTLE-12/1-588P
CD with operating manual

5 Comments:

Warranty	12 months
RoHS-compliant	Yes

6 Recommended accessories:

RF-cables
Terminations
Attenuators



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Typical measurements:

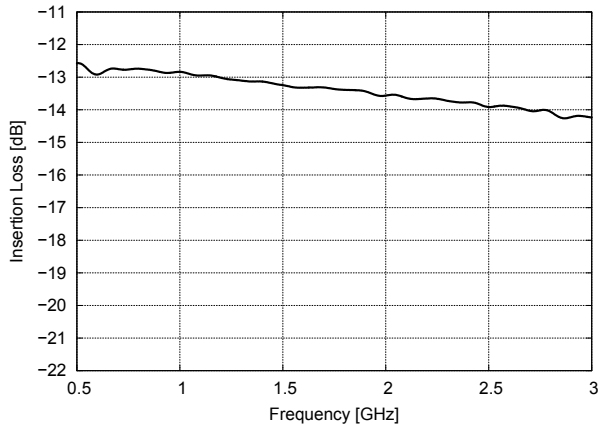


Fig. 1: Input port to output port insertion loss

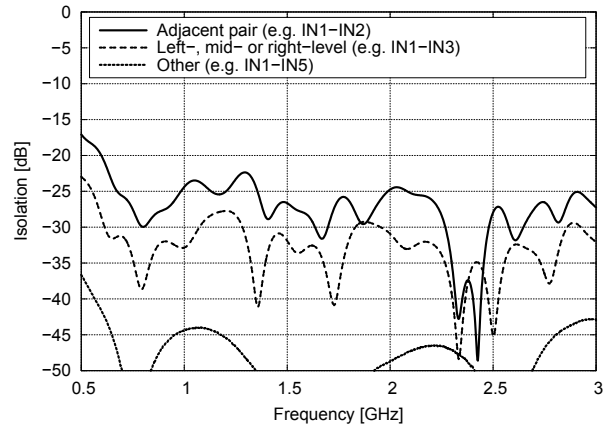


Fig. 2: Isolation between input ports

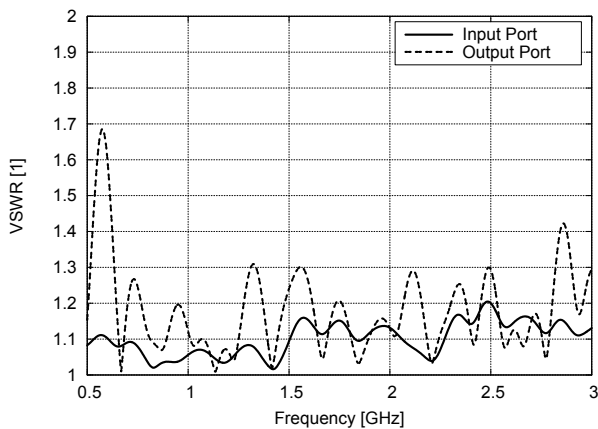


Fig. 3: VSWR for input and output ports

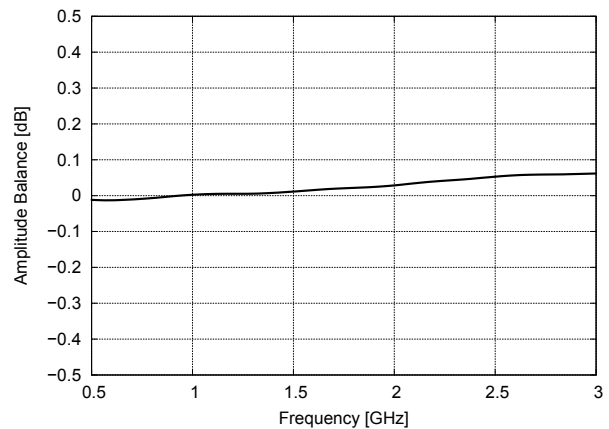


Fig. 4: Amplitude balance between input ports

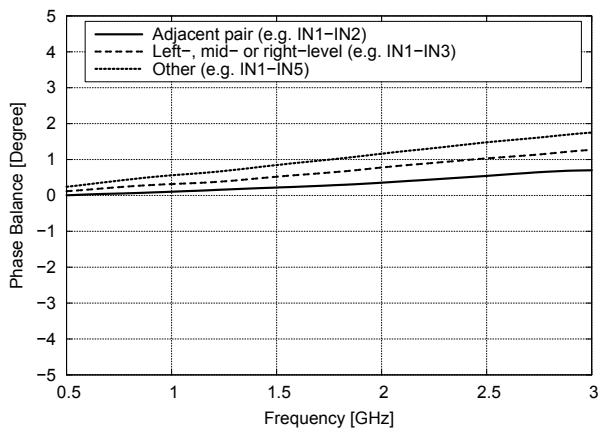
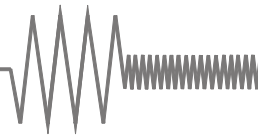


Fig. 5: Phase balance between input ports



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Views:

