

Ultra Broad Band Splitter/Combiner



Products:

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| DEV 2644/50 - | Ultra Broad Band Splitter/Combiner, 50 Ohm |
| DEV 2644/75 - | Ultra Broad Band Splitter/Combiner, 75 Ohm |

Features:

- Passive 1:4 Splitter and 4:1 Combiner, respectively
- Compact Wall Mountable Chassis
- 50 Ohm Version and 75 Ohm Version available
- Frequency range:
 - 500...2700 MHz (DEV 2644/50)
 - 400...2850 MHz (DEV 2644/75)
- DC Signals are not blocked

Application Areas:

- Satellite Ground Stations
- Test Sites
- DVB

The Situation

In satellite ground stations and cable head end stations many of the signals need to be combined or split for large distribution networks.

DEV worked out a Solution

DEV Systemtechnik has developed the DEV 2644 as a high performance splitter/combiner which can be used as a pre-splitter or as a pre-combiner.

The instrument can be integrated easily due to its compact wall mount chassis.

The Technical Concept

The DEV 2644 is available in a 50 Ohm version with SMA connectors and is available in a 75 Ohm version with precision F connectors. DC signals are not blocked when the splitter/combiner is applied.

Technical Data

DEV 2644/zz Ultra Broad Band Splitter/Combiner

RF Specifications

Frequency range	500...2700 MHz	(DEV 2644/50)
	400...2850 MHz	(DEV 2644/75)
Number of input/output ports	1	
Number of output/input ports	4	
Impedance (zz), connectors	50 Ohm, SMA (f)	(DEV 2644/50)
	75 Ohm, Precision F (f)	(DEV 2644/75)
Return loss common port	>18 dB	(DEV 2644/50)
	>14 dB	(DEV 2644/75)
Return loss ports 1...4	>20 dB	
Insertion loss	8±1 dB	
Amplitude frequency response	±1 dB	(entire band)
	±0,2 dB	(within any 36 MHz interval)
Isolation	>22 dB, typ. >25 dB	(DEV 2644/50)
	>20 dB	(DEV 2644/75)
DC blocked	no	

General Specifications

Housing	82 mm (3,2") * 104 mm (4,1") * 15 mm (0,6")
Weight	~0,3 kg
Environmental conditions	ETS 300019 Part 1-3 Class 3.1

Order Information

DEV 2644/50	Ultra Broad Band Splitter/Combiner, 50 Ohm, SMA connectors
DEV 2644/75	Ultra Broad Band Splitter/Combiner, 75 Ohm, Precision F connectors

Contact

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