Rack-Mounted

16 x 2-Way Splitter / Combiner ZT-246

50Ω 350-6000 MHz

Product Overview

ZT-246 simplifies complex rack-mounted routing systems by integrating 16 individual RF splitter / combiners into a single rack-mountable chassis. The compact package fits into a standard 19” rack cabinet with 2U height and only 10” depth. Each of the 2-way splitter / combiners has all 3 RF ports (Sum, 1 & 2) conveniently accessible on the front panel, with SMA female connectors.

The wide operating bandwidth of 350-6000 MHz allows the system to be used for a wide range of applications, including GSM, CDMA, LTE, Bluetooth, Wi-Fi and many more. A high input power rating with low insertion loss further increases the flexibility of the system, minimizing losses through signal distribution, routing and test systems.

Electrical Specifications at 25°C, per Splitter

Parameter		Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency			350		6000	MHz
Insertion Loss (above theoretical 3.0 dB)		350-500	—	0.1	0.6	dB
		500-2700	—	0.5	0.9	
		2700-3600	—	0.7	1.1	
		3600-6000	—	0.9	1.4	
Isolation		350-500	16	20	—	dB
		500-2700	18	22	—	
		2700-3600	15	20	—	
		3600-6000	15	18	—	
Phase Unbalance		350-2700	—	1.0	3	Degree
		2700-3600	—	1.5	4	
		3600-6000	—	3.0	5	
Amplitude Unbalance		350-2700	—	0.15	0.3	dB
		2700-6000	—	0.2	0.5	
VSWR (Port S)		350-6000	—	1.4	—	:1
VSWR (Port 1-2)		350-6000	—	1.4		
Power Handling[3]	As Splitter[1]	350-3600	—	—	25	W
		3600-6000	—	—	15	
	As Combiner[2]	350-6000	—	—	1.0	

1. All outputs must be terminated in 50Ω (VSWR 1.5:1 or better)
2. As a combiner of non-coherent signals, max power per port is 0.5W

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