Coaxial **Power Splitter/Combiner** zc10PD-26W+

10 Way-0° 2250 to 2800 MHz 50Ω

The Big Deal

- Low insertion loss, 0.7 dB
- High isolation, 25 dB
- Power handling up to 10W as a splitter



CASE STYLE: AB204

Product Overview

Mini-Circuits' ZC10PD-26W+ is a 10-way 0° splitter/combiner providing 10W RF power handling as a splitter across the 2250 to 2800 MHz range, covering a variety of applications including cellular, ISM and more. It provides a high port-count with low insertion loss, high isolation and low amplitude unbalance, making this model ideal for systems requiring distribution of signal into many channels. The splitter/combiner comes housed in a rugged aluminum alloy case (6.13 x 3.00 x 0.53") with SMA connectors.

Key Features

Feature	Advantages			
10W power handling as a splitter	Suitable for a variety of system power requirements.			
High isolation, 25 dB typ.	Minimizes signal leakage and interference between ports.			
Low amplitude unbalance, 0.8 dB	ZC10PD-26W+ produces nearly equal output signals, ideal for parallel path / multichan- nel systems.			
Good VSWR, 1.25:1 typ.	Provides excellent thru-path transmission with low signal reflection			

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Notes

Coaxial **Power Splitter/Combiner**

10 Way-0° 2250 to 2800 MHz **50**Ω

Maximum Ratings

Operating Temperature	-55°C to 100°C				
Storage Temperature	-55°C to 100°C				
Power Input (as a splitter)	10W max.				
Internal Dissipation	0.80W max.				
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Coaxial Connections

SUM PORT	S	
PORT 1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	

Outline Drawing



Outline Dimensions (inch)

F	E	D	C	B	A
1.500	5.962	. 162	.53	3.00	6.13
38.10	151.43	4.11	13.46	76.20	155.70
wt	L	К	J	H	G
grams	.50	1.13	.25	.50	.116
207	12.70	28.70	6.35	12.70	2.95

electrical schematic





Features

- low insertion loss, 0.7 dB typ.
- high isolation, 25 dB typ.
- good amplitude unbalance. 0.8 dB typ.
- good VSWR, 1.25 typ.
- up to 10W power input as splitter

Applications

- cellular communications
- CATV
- ISM
- wireless communication systems



CASE STYLE: AB204 Connectors Model ZC10PD-26W-S+ SMA

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Flectrical Specifications

Parameter		Frequency (MHz)	Min.	Тур.	Max.	Unit		
Frequency Range			2250		2800	MHz		
Insertion Loss (above theoretical 10 dB)		2300 - 2600 2250 - 2800	_	0.7 0.9	1.6 1.9	dB		
Isolation		2300 - 2600 2250 - 2800	19 18	22 21	_	dB		
Phase Unbalance		2300 - 2600 2250 - 2800	_	8 10	15 17	Degree		
Amplitude Unbalance	9	2300 - 2600 2250 - 2800	_	0.5 0.6	0.9 1.0	dB		
VSWR (Port S)		2250 - 2800	—	1.35	1.6	:1		
VSWR (Port 1-10)		2300 - 2600 2250 - 2800	_	1.30 1.45	1.55 1.6	:1		
Power Handling ¹	as splitter		_	_	10	W		
	as combiner ²		_	_	0.8			

1. Over 25°C to 100°C. Derate linearly to 50% of rating at 100°C. 2. As a combiner of non-coherent signals max power per port is 0.8 Watt power rating divided by number of ports.

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			1-2	1-10			
2250	10.65	0.37	20.96	21.59	5.92	1 1/	1 15
2230	10.05	0.57	20.90	21.00	5.05	1.14	1.15
22/5	10.66	0.50	22.47	21.02	6.08	1.14	1.12
2300	10.63	0.49	23.99	21.59	7.06	1.14	1.10
2325	10.58	0.32	25.29	21.57	7.42	1.14	1.08
2350	10.56	0.29	26.15	21.57	7.18	1.16	1.06
2375	10.56	0.27	26.32	21.56	6.93	1.19	1.06
2400	10.57	0.27	25.87	21.56	6.73	1.21	1.07
2450	10.60	0.26	24.26	21.53	6.48	1.28	1.11
2500	10.62	0.27	23.00	21.46	6.80	1.30	1.15
2550	10.64	0.31	22.29	21.38	7.52	1.30	1.21
2600	10.70	0.30	22.25	21.26	8.95	1.29	1.26
2650	10.73	0.35	22.66	21.11	8.39	1.20	1.30
2700	10.77	0.41	23.39	21.04	9.21	1.11	1.34
2750	10.90	0.47	24.10	20.81	10.10	1.04	1.37
2800	10.97	0.50	24.31	20.70	11.05	1.09	1.40



1. Total Loss = Insertion Loss + 10dB splitter loss

2580 2690 2800 FREQUENCY (MHz)

OUTPUT

,,,,)Mini-Circuits

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