DC Pass, High Power Power Splitter/Combiner ZC16PD-18263-S+

16 Way-0° 50Ω 18000 to 26500 MHz

The Big Deal

- Wideband, 18 to 26.5 GHz
- High Isolation, 23 dB typ.
- 20W power handling
- Low amplitude unbalance, 0.24 dB typ.



Product Overview

Mini-Circuits' ZC16PD-18263-S+ is a wideband 16-way 0° splitter/combiner providing coverage from 18 to 26.5 GHz, supporting a wide range of applications including Ku-Band, K-Band, instrumentation and many more. This model provides 20W power handling as a splitter and very low insertion loss across the entire operating frequency range, minimizing power dissipation and delivering excellent signal power transmission from input to output. The ZC16PD-18263-S+ comes housed in a case measuring 8.27 x 1.42 x 0.5" with super SMA connectors.

Key Features

Feature	Advantages
Wideband, 18 to 26.5 GHz	Extremely wide frequency range supports many broadband applications in a single model.
High isolation, 23 dB typ.	Minimizes interference between ports.
High power handling: • 20W as a splitter at 25°C • 2.4W as a combiner	The ZC16PD-18263-S+ is suitable for systems with a wide range of power requirements.
Low amplitude unbalance, 0.24 dB	Produces nearly equal output signals, ideal for parallel path and multichannel systems.
DC Passing, 470mA	Supports applications where DC power is needed through the RF line.

- A Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document. B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collective), "Standard Terms"), Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



Notes

DC Pass, High Power Power Splitter/Combiner

16 Way-0° 50 Ω 18000 to 26500 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	20W* max.
Internal Dissipation	2.4W max.
DC Current	470 mA
Pormanant damage may accur if any of	f those limits are exceeded

* Derate linearly to 11W at 100°C

Coaxial Connections

Sum Port	 S
Port 1-16	1-16

Outline Dimensions (inch)

G	F	E	D	C	B	A
.43	. 157	4.13	7.953	.50	1.42	8.27
11	4.0	105	202.0	12.70	36.1	210
	0	M . 394	L .52	K .27	J .10 2.5	H .945 24.0

Features

- Super wideband, 18000 26500 MHz
- Low amplitude unbalance, 0.24 dB typ.
- Excellent VSWR, 1.29:1 typ.High isolation, 23 dB typ.

Applications

Fixed satellite

- Mobile
- Space research

ZC16PD-18263-S+



Connectors Model SMA-Fem ZC16PD-18263-S+

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

Electrical Specifications at 25°C

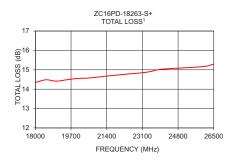
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Frequency Range		18000		26500	MHz
Insertion Loss Above 12.0 dB	18000-26500		3.1	3.8	dB
Isolation	18000-26500	16	23		dB
Phase Unbalance (±) ¹	18000-26500		3.8	6	Degree
Amplitude Unbalance (±) ¹	18000-26500		0.24	0.5	dB
VSWR (Port S)	18000-26500		1.29	1.6	:1
VSWR (Port 1-16)	18000-26500		1.3	1.6	:1

1. With reference to average

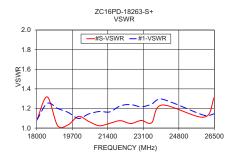
Freq. (MHz)		Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			1-2	13-16			
18000	14.34	0.32	24.18	30.56	3.90	1.08	1.08
18500	14.48	0.29	24.64	47.19	3.54	1.32	1.25
19000	14.41	0.26	34.11	30.56	3.82	1.02	1.20
19500	14.49	0.21	31.06	33.68	3.41	1.03	1.16
20000	14.55	0.17	27.04	35.22	3.74	1.12	1.10
20500	14.57	0.15	31.10	42.35	3.80	1.07	1.15
21000	14.63	0.15	34.96	39.84	3.88	1.02	1.17
21500	14.69	0.15	32.61	36.85	3.80	1.05	1.17
22000	14.74	0.15	36.41	38.69	3.92	1.08	1.23
22500	14.79	0.16	25.94	43.29	4.03	1.05	1.24
23000	14.84	0.15	25.10	29.51	4.30	1.08	1.22
23500	14.91	0.15	24.88	28.75	4.15	1.06	1.24
24000	15.03	0.16	22.72	28.11	4.51	1.24	1.30
26000	15.16	0.15	27.69	31.86	4.79	1.11	1.13
26500	15.29	0.16	26.85	36.16	4.83	1.31	1.15

Electrical Schematic









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REV. A ECO-005034 ZC16PD-18263-S+ GY/CP/AM 201120 Page 2 of 2