

Directional 10 dB 1.85mm Coupler From 1 GHz to 67 GHz Rated to 20 Watts



Couplers Technical Data Sheet PE2CP1127-10 **Features** • 1 GHz to 67 GHz • Directional 1.85mm Coupler · 20 Watts CW Max Power Meets Standards for Humidity, Shock, Vibration, Alti- 10 dB Coupling Value tude **Applications**

- Communications Systems
- GSM, LTE, 5G
- Amplifier Systems

- Point-to-Point Radio Automotive Radar
- Defense Applications
- Wireless Telecommunications

Description

The PE2CP1127-10 is an 10 dB RF coupler with 50 ohm 1.85mm connectors operating from 1 GHz to 67 GHz with a maximum input power of 20 Watts CW, and peak power handling of 300 watt. The PE2CP1127-10 has a coupling factor of 10 dB, insertion loss of 1.6 dB maximum and a maximum VSWR of 1.6:1. The coupler operates over a temperature range of -45 to 85° C and meets environmental standard for humidity, shock, vibration, and altitude. Couplers have many Applications and perform several functions within the RF/Microwave industry such as circuit feedback and signal sampling for measurement or monitorina.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1		67	GHz
Impedance		50		Ohms
Coupling	9	10	13.5	dB
Frequency Sensitivity		±0.5	±1.5	dB
Insertion Loss		1.4	1.6	dB
Directivity	8	16		dB
Main Line VSWR		1.45:1	1.6:1	
Secondary Line VSWR		1.45:1	1.6:1	
Input Power (CW)			20	Watts
Input Power (Peak)			300	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Directional 10 dB 1.85mm Coupler From 1 GHz to 67 GHz Rated to 20 Watts PE2CP1127-10

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com



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PASTIENAAX PEXPELIZZ-10

Performance by Frequency

Description	F1	F2	F 3	F4	F5	Units
Frequency Range	1 to 18	18 to 40	40 to 67			GHz
Insertion Loss, Typ	1.5	2.2	3.5			dB
Main Line VSWR, Typ	1.3:1	1.4:1	1.5:1			
Main Line VSWR, Max	1.5:1	1.6:1	1.7:1			
Secondary Line VSWR, Typ	1.3:1	1.4:1	1.5:1			
Secondary Line VSWR, Max	1.5:1	1.6:1	1.7:1			
Directivity, Min	15	10	8			dB
Directivity, Typ	16	12	10			dB
Coupling, Typ	10.5	11.5	12.5			dB
Frequency Sensitivity, Typ	±1	±0.5	±1			dB

Mechanical Specifications

Weight Housing Material and Plating

Configuration

Package Type Input Connector Output Connector Coupled Connectors

Environmental Specifications

Temperature Operating Range Storage Range

Humidity Shock Vibration Altitude 0.1345 lbs [61.01 g] Aluminum

Connectorized 1.85mm Female 1.85mm Female 1.85mm Female

-45 to +85 deg C -55 to +125 deg C

100% RH at 35°C, 95% RH at 40°C 20G for 11msec half sine wave, 3 axis both directions 25g RMS (15 degrees 2KHz) endurance, 1 hour per axis 30,000 ft. (Epoxy Sealed Controlled environment)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Directional 10 dB 1.85mm Coupler From 1 GHz to 67 GHz Rated to 20 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/directional-10-db-1.85mm-coupler-67-ghz-pe2cp1127-10-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE2CP1127-10 CAD Drawing Directional 10 dB 1.85mm Coupler From 1 GHz to 67 GHz Rated to 20 Watts

