



Telecommunications

50 Ohm SMA Frequency Doubler With Input From 4 GHz to 9 GHz And Output From 8 GHz to 18 GHz With 10 dB Conversion Loss

Frequency Multipliers Technical Data Sheet

PE8602

Features

- x2 Frequency Multiplier
- Wide Frequency Band

Low Conversion Loss

Applications

- Electronic Warfare
- Point-to-Point Radio
- Point-to-Multipoint Radio
- VSAT Radios
- Space Systems
- Test Instrumentation

Description

Pasternack's PE8602 is a frequency multiplier with a multiplication factor of 2, also known as a frequency doubler. This frequency doubler covers a wide output frequency range of 8 GHz to 18 GHz. Typical performance of this frequency multiplier includes 10 dB conversion loss. The PE8602 frequency multiplier also provides 23 dB minimum fundamental isolation.

Electrical Specifications (TA= 25°C)

Description	Minimum	Typical	Maximum	Units
Input Frequency Range	4		9	GHz
Output Frequency Range	8		18	GHz
Impedance		50		Ohms
Input Power (CW)	+10		+13	dBm
Conversion Loss		10	12	dB
Fundamental Isolation	23	25		dB

Electrical Specification Notes:

Values at 25°C, sea level.

Fundamental isolation referenced to input signal.

Mechanical Specifications

Size

 Length
 1.55 in [39.37 mm]

 Width
 0.31 in [7.87 mm]

 Height
 0.59 in [14.99 mm]

 Weight
 0.027 lbs [12.25 g]

Body Material and Plating Passivated Stainless Steel

Package Type Connectorized Input Connector SMA Female Output Connector SMA Female

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 50 Ohm SMA Frequency Doubler With Input From 4 GHz to 9 GHz And Output From 8 GHz to 18 GHz With 10 dB Conversion Loss PE8602

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Environmental Specifications

Temperature

Operating Range -55 to +125 deg C Storage Range -65 to +150 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant REACH Compliant

12/17/2015

Plotted and Other Data

Notes:

50 Ohm SMA Frequency Doubler With Input From 4 GHz to 9 GHz And Output From 8 GHz to 18 GHz With 10 dB Conversion Loss from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/50-ohm-sma-doubler-input-4000-9000-output-8000-18000-10db-loss-pe8602-p.aspx

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PE8602 CAD Drawing

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