

# Frequency Doubler (166 GHz)

## Description

The PM 166/2/1 series is a passive frequency doubler based on Teratech's Schottky diode technology. This device is available in both biased and unbiased options.

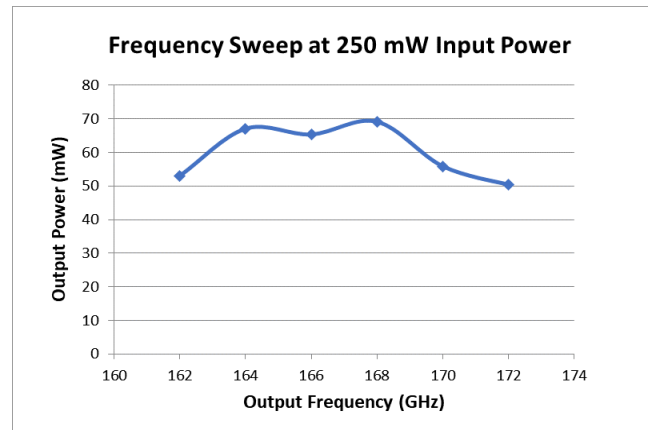
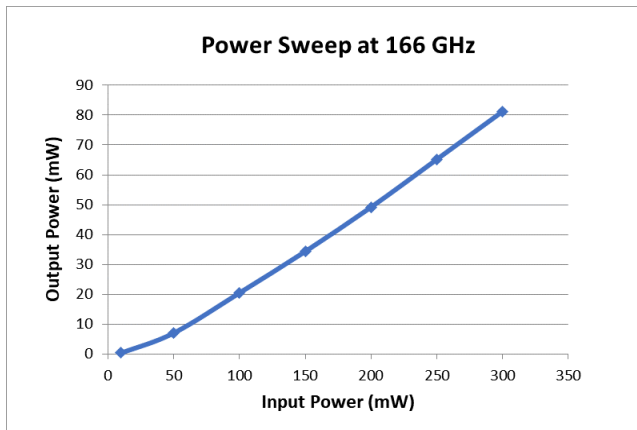
Specification	Unit	
Input frequency	GHz	83
Output frequency	GHz	166†
Input power	mW	Max. 400
Output power	mW	Typ. 65*
Input port	WR-10 (UG-387/U-M)	
Output port	WR-5 (UG-387/U-M)	
Dimension	mm	14 x 19 x 19 (length x width x height)



\* See power sweep for typical performance

† See frequency sweep for typical bandwidth

## Typical Performance



Note: Teratech reserves the right to change the data for this device without notice. For different frequency and power requirements contact the sales team at the email given below.

### Attention:

Teratech Components Ltd. assumes users will be familiar with microwave and millimetre wave products.

This product is sensitive to Electrostatic Discharge (ESD). Teratech Components Ltd assumes the user will only be handling and working with these products in an ESD safe environment, where the component will be grounded at all times. Any attempt to open, pull apart, or damage the component will immediately void the warranty. Any damage caused to the component by improper handling is highly likely to void the warranty.



To order these diodes please contact [sales@teratechcomponents.com](mailto:sales@teratechcomponents.com)  
[www.teratechcomponents.com](http://www.teratechcomponents.com)