

Passive Frequency Doublers

SPECTRUM MICROWAVE

Spectrum Microwave offers a line of low noise frequency doublers. These custom designed assemblies cover input frequency ranges of 5 to 500 MHz with output frequencies in the range of 10 to 1000 MHz. Narrowband or broadband devices are available with optional filtering to improve performance. Additive phase noise testing ensures low phase noise. The doublers are available in an SMA connectorized 1.3 x 1.3 x 0.8 inch package. Other package options are available.

Typical Performance Characteristics

- Low conversion loss (12 dB typical)
- Input VSWR 2:1 or better
- F1 input feed thru <-23 dB relative to desired X2 output
- F3 <-43 dB relative to desired X2 output
- F4 <-12 dB relative to desired X2 output
- F5 <-50 dB relative to desired X2 output
- +10 to +13 dBm input range

Optional Features

- Output filtering lowpass or bandpass
- Different Connector types



ISO 9001
CERTIFIED