

UWDM-S12T42G

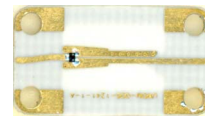
Ultra-wideband Frequency Doubler

Description

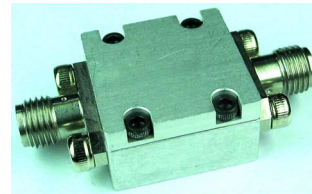
The UWDM-D12T42G is an ultra-wideband frequency doubler. This doubler utilizes our company's patented ultra-wideband balun, which enables low-cost implementation. This doubler produces output signals from 12 to 42 GHz with low conversion loss and high fundamental and 3rd harmonic suppression.

Features

- ✓ Low cost
- ✓ Input 6 to 21 GHz
- ✓ Output 12 to 42 GHz
- ✓ 10 dB Typical Conversion Loss
- ✓ 35 dB Typical Fundamental Suppression
- ✓ 50 dB Typical 3rd Harmonic Suppression
- ✓ Package options:
 - 01 Housing: 0.71" × 0.7" × 0.4"
 - 02 Carrier : 0.6" × 0.32" × 0.04"



carrier type

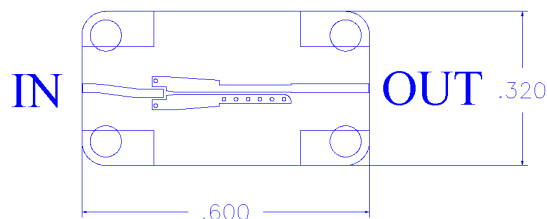


Housing type

Electrical Specifications

Parameter	Input (GHz)	Output (GHz)	Min	Typical	Max
Conversion Loss (dB)	6 ~ 21 (F)	12 ~ 42 (2F)		10	12
Fundamental Suppression (dBc)		6 ~ 21		35	
3rd Harmonic suppression (dBc)		18 ~ 63		50	
Input Level (dBm)				15	

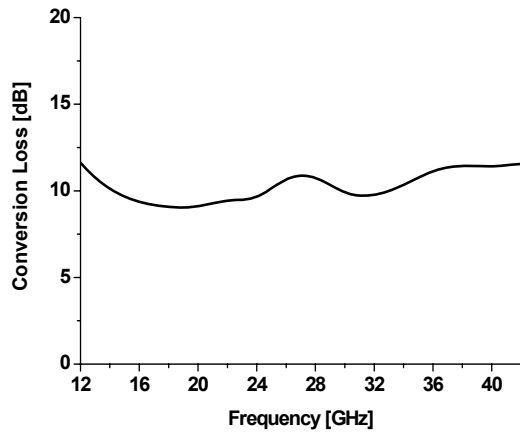
Dimension & Ports Description (for carrier type)



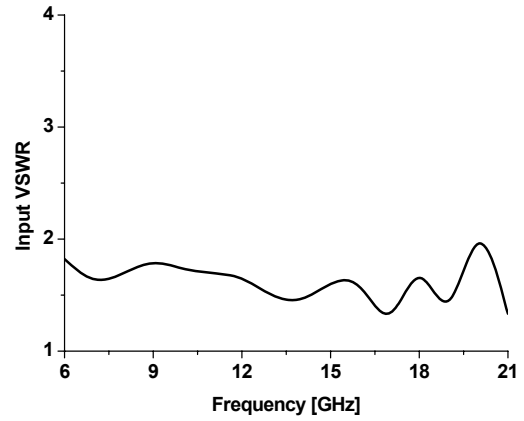
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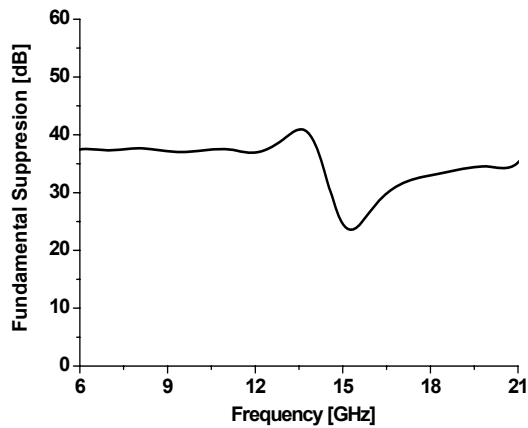
Conversion Loss



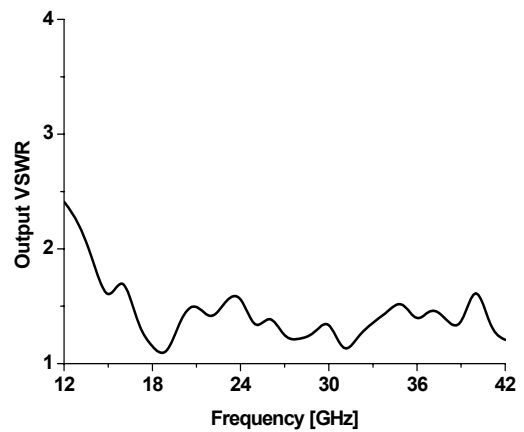
Input VSWR



Fundamental Freq. Suppression



Output VSWR



3rd Harmonic Suppression

