

4.0-8.0GHz Input Frequency Doubler

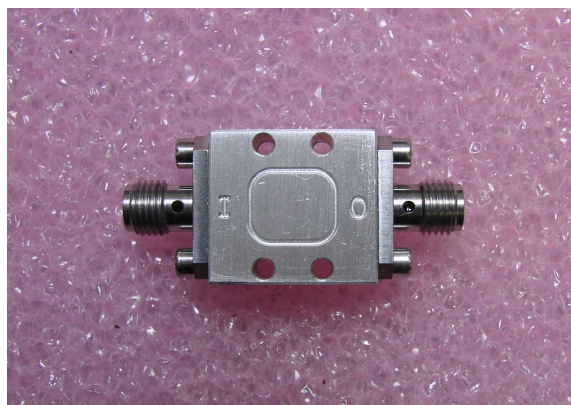
Features

- Input Frequency: 4.0 – 8.0GHz
- Output Frequency: 8.0 – 16.0GHz
- Conversion Loss: 16dB
- F0 Isolation: 40dB
- Input Drive Level: +10 to +15dBm
- No DC Power Required
- SMA Connector

Description

HD32529 is a passive frequency doubler operates with input frequency range from 4.0 to 8.0GHz and output frequency range from 8.0 to 16.0GHz.

Picture



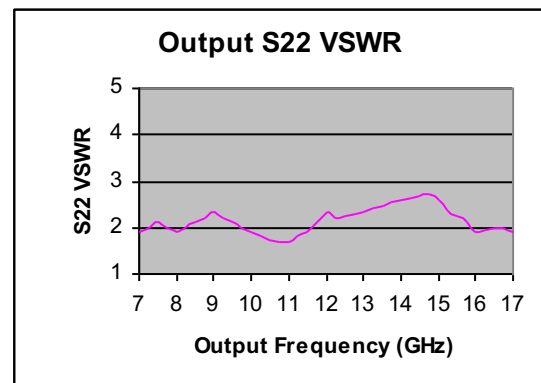
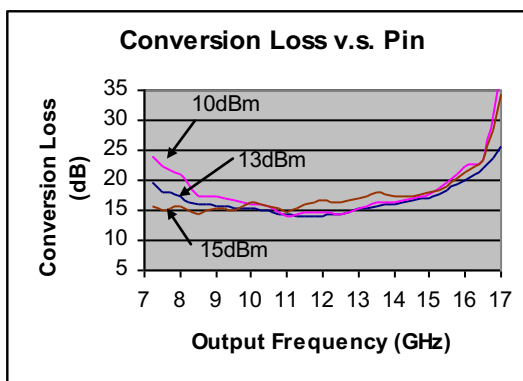
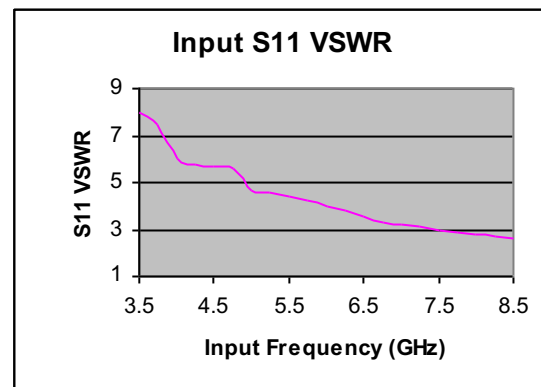
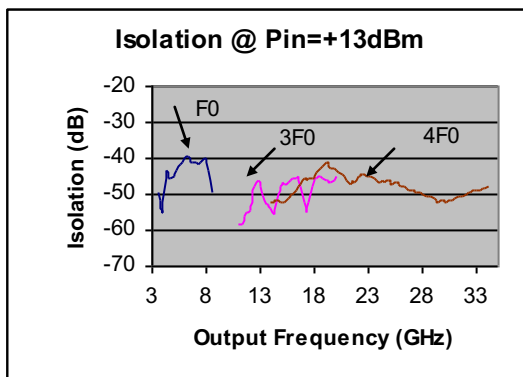
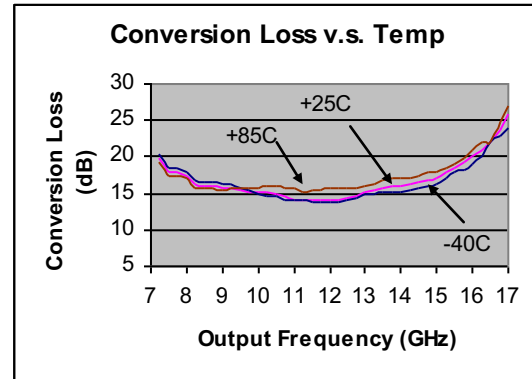
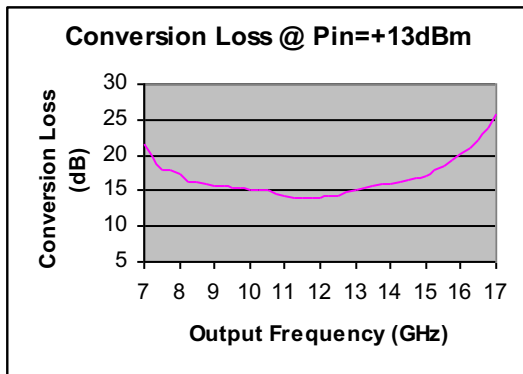
Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \Omega$

Parameter	Unit	Pin = +10dBm			Pin = +13dBm			Pin = +15dBm		
		Min.	Typ.	Max	Min.	Typ.	Max	Min.	Typ.	Max
Input Frequency Range	GHz	5.5 – 7.5			5.0 – 8.0			4.0 - 8.0		
Output Frequency Range	GHz	11.0 – 15.0			10.0 – 16.0			8.0 – 16.0		
Conversion Loss	dB		16	19		16	19		16	19
F0 Isolation *	dB				37	41				
3F0 Isolation *	dB				42	46				
4F0 Isolation *	dB				35	40				
VSWR Input						4.5:1				
Output						2.7:1				

* Isolation with respect to input power level

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Typical Performance @ +25 °C



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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+27dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

Outline

