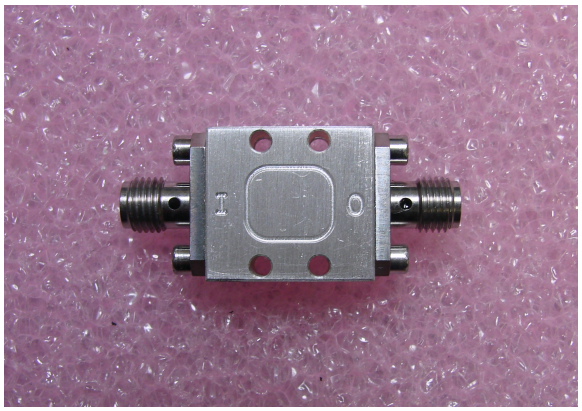
HD32526

0.85-2.0GHz Input Frequency Doubler

Features

- Input Frequency: 0.85 – 2.0GHz
- Output Frequency: 1.7 – 4.0GHz
- Conversion Loss: 15dB
- F0 Isolation: 45dB
- Input Drive Level: +10 to +20dBm
- No DC Power Required
- SMA Connector

Picture



Description

HD32526 is a passive frequency doubler operates with input frequency range from 0.85 to 2.0GHz and output frequency range from 1.7 to 4.0GHz.

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

Parameter	Unit	Pin = +10dBm			Pin = +15dBm			Pin = +20dBm		
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Input Frequency Range	GHz	1.0 – 1.75			0.85 – 2.0			0.85 - 2.0		
Output Frequency Range	GHz	2.0 – 3.5			1.75 – 4.0			1.75 – 4.0		
Conversion Loss	dB		18	22		14	17		15	18
F0 Isolation *	dB				35	45				
3F0 Isolation *	dB				46	52				
4F0 Isolation *	dB				31	40				
VSWR Input Output						2.0:1 2.1:1	3.5:1 2.5:1			

* Isolation with respect to input power level

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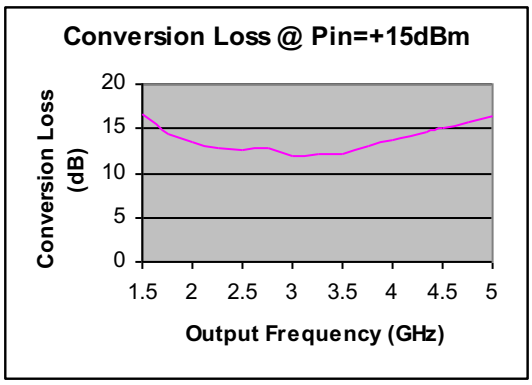
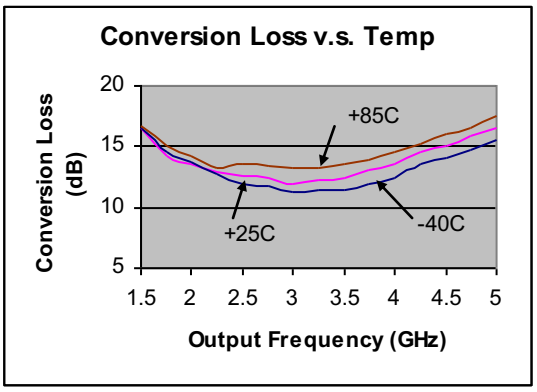
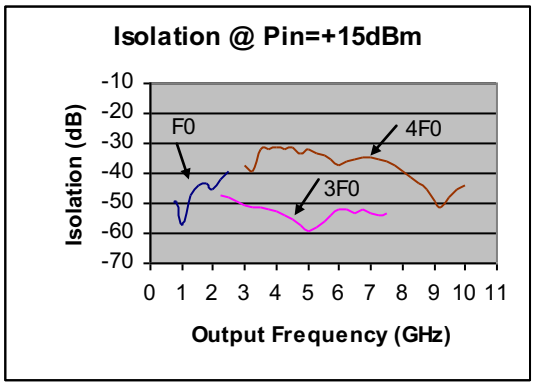
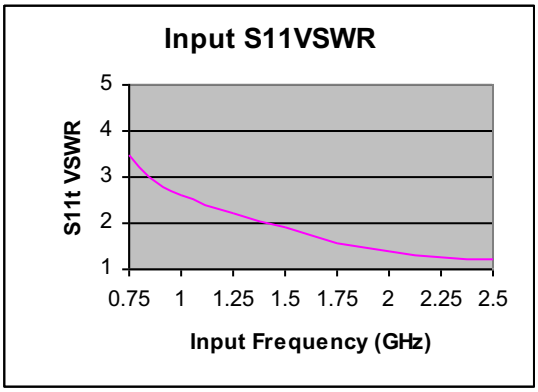
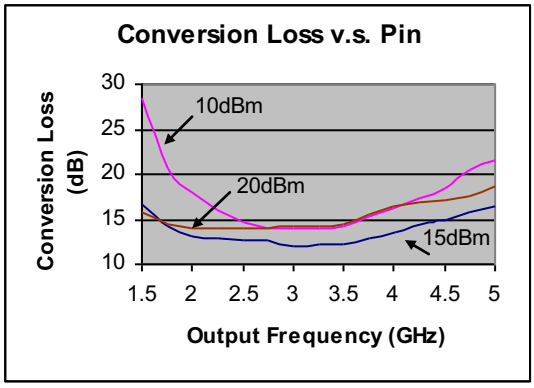
Typical Performance @ +25 °C

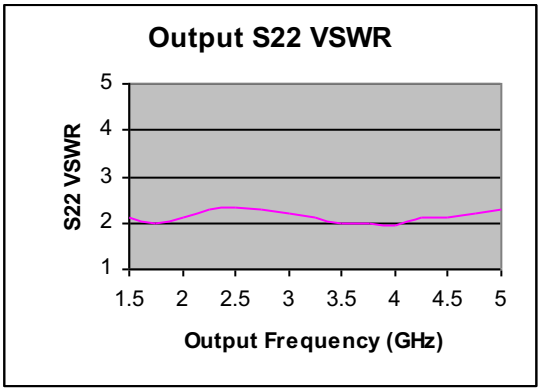












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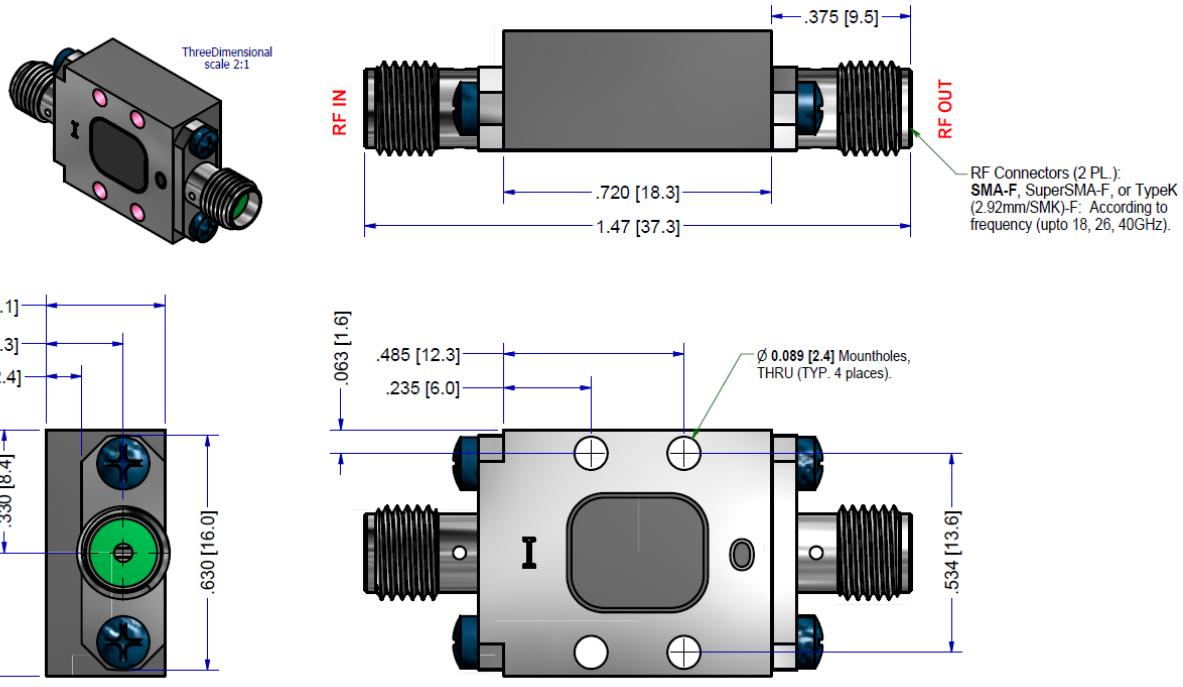
Absolute Maximum Ratings

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

Outline



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