

600-750MHz Input Frequency Tripler

Features

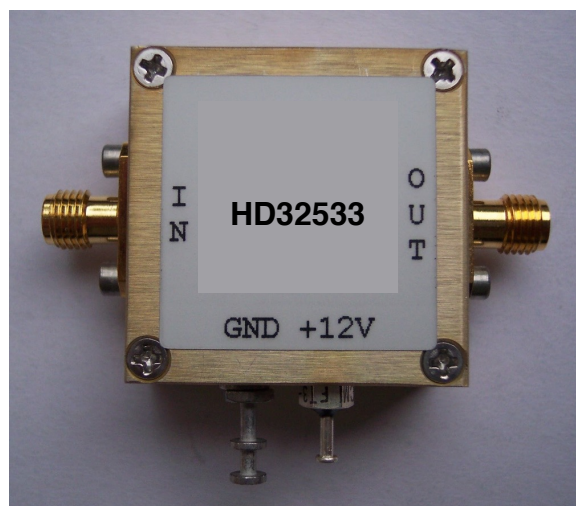
- Input Frequency: 600 – 750MHz
- Output Frequency: 1800 – 2250MHz
- Conversion Gain: 4dB
- F0 Isolation: 45dB
- Input Drive Level: -3dBm
- DC Power: 12V
- SMA Connector

Performance@670MHz, Pin= -3dBm

Description

HD32533 is an active frequency tripler operates with input frequency range from 600 to 750MHz and output frequency range from 1800 to 2250MHz.

Picture



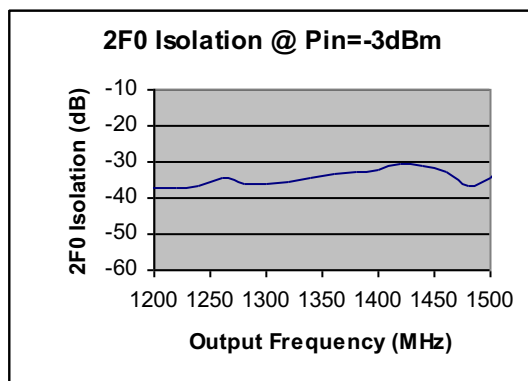
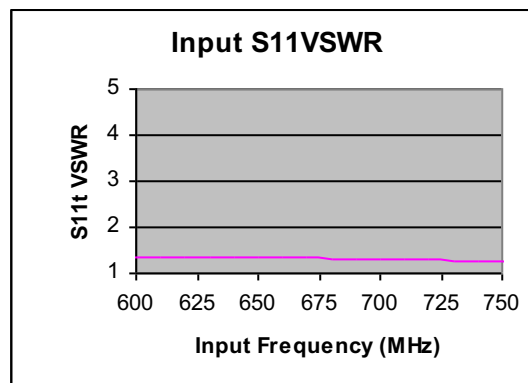
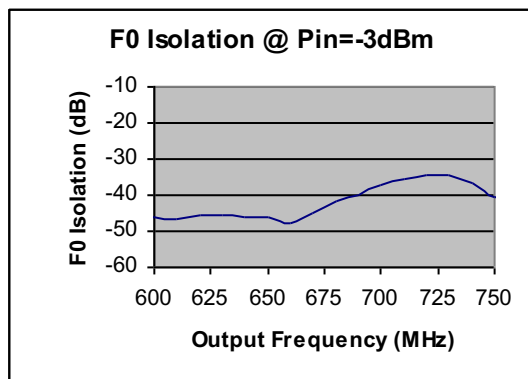
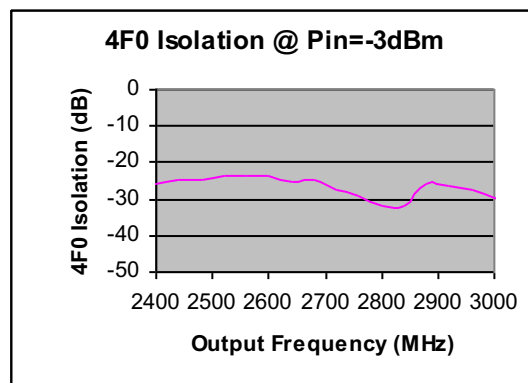
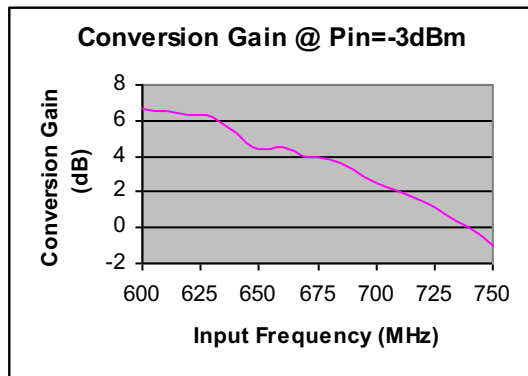
Electrical Specifications @ +25 °C, Z_s = Z_L = 50 Ohms, Pin = -3dBm

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	600		750
Output Frequency Range	MHz	1800		2250
Conversion Gain	dB	-1	4	7
F ₀ Isolation *	dB		45	
2F ₀ Isolation *	dB		30	
4F ₀ Isolation *	dB		25	
VSWR Input			1:1.35	
Output			1:2.50	
DC Power Input	V	10	12	15
Operating Current	mA		105	

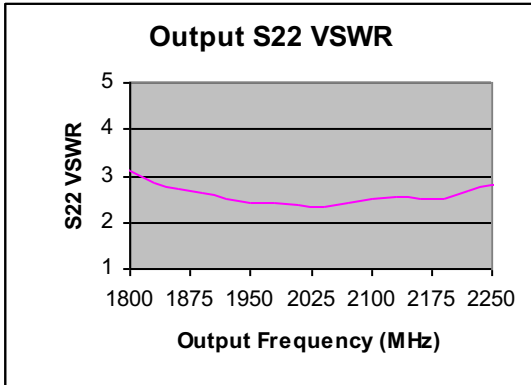
* Isolation with respect to output power level

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Typical Performance @ +25 °C



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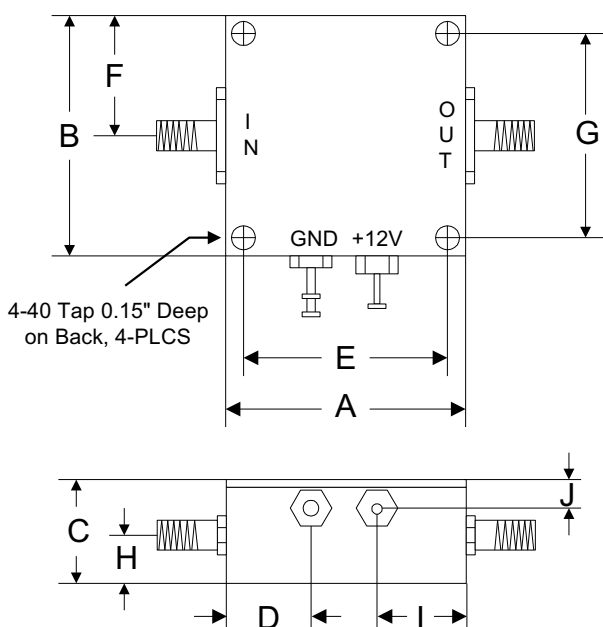


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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+23dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +105 °C

Outline



	A	B	C	D	E	F	G	H	I	J
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76