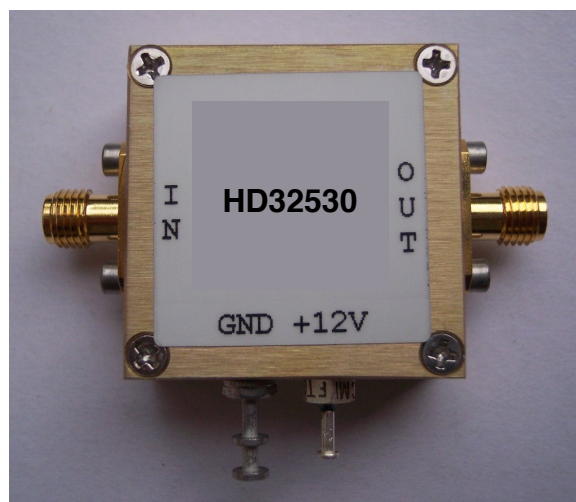


250-350MHz Input Frequency Tripler

Features

- Input Frequency: 250 – 350MHz
- Output Frequency: 750 – 1050MHz
- Conversion Gain: 7dB
- F0 Isolation: 40dB
- Input Drive Level: -3dBm
- DC Power: 12V
- SMA Connector

Picture



Performance@300MHz, Pin= -3dBm

Description

HD32530 is an active frequency tripler operates with input frequency range from 250 to 350MHz and output frequency range from 750 to 1050MHz.

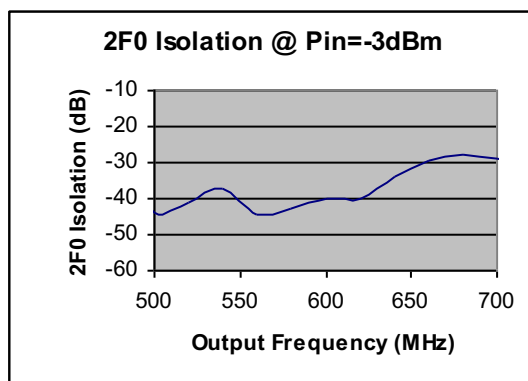
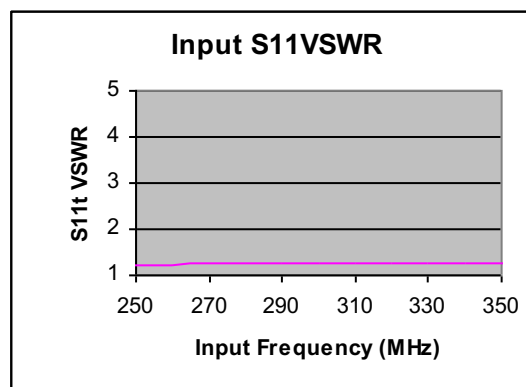
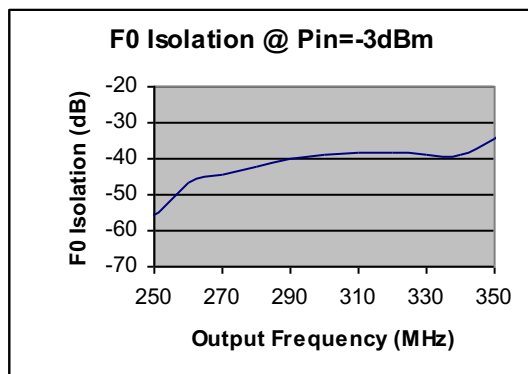
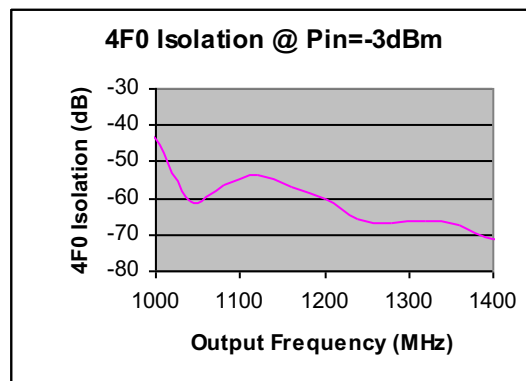
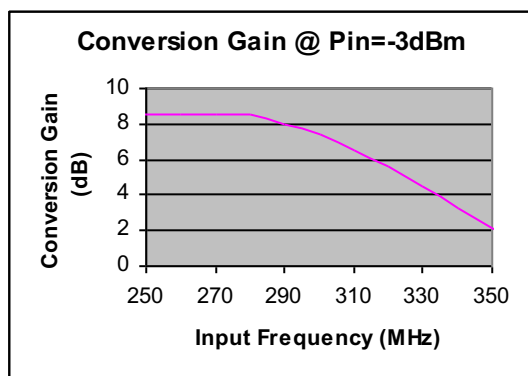
Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \text{ Ohms}$, Pin = -3dBm

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	250		350
Output Frequency Range	MHz	750		1050
Conversion Gain	dB	2	7	9
F ₀ Isolation *	dB		40	
2F ₀ Isolation *	dB		35	
4F ₀ Isolation *	dB		55	
VSWR Input			1:1.30	
Output			1:2.70	
DC Power Input	V	10	12	15
Operating Current	mA		105	

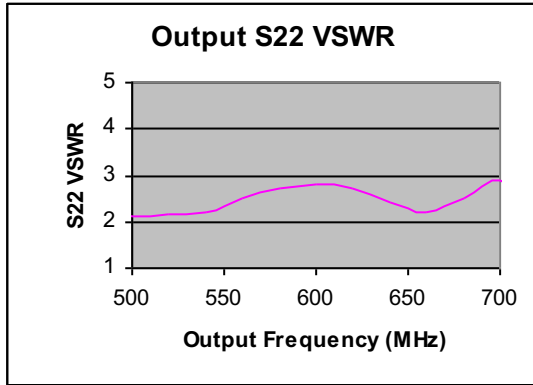
* Isolation with respect to output power level

250-350MHz Input Frequency Tripler

Typical Performance @ +25 °C



250-350MHz Input Frequency Tripler

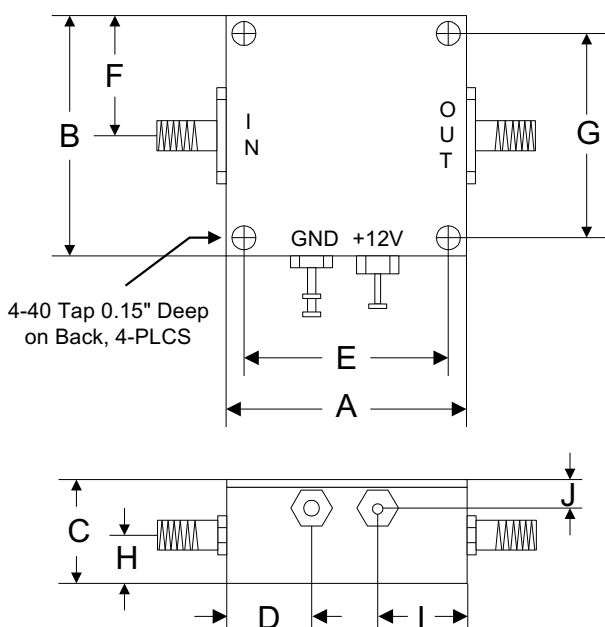


250-350MHz Input Frequency Tripler

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