

HD25087

0.01-1.0GHz Input Frequency Doubler

Features

- Input Frequency: 0.01 – 1.0GHz
- Output Frequency: 0.02 – 2.0GHz
- Conversion Loss: 15dB
- F0 Isolation: 35dB
- Input Drive Level: 12 to 16dBm
- No DC Power Required
- SMA Connector



Description

HD25087 is a passive frequency doubler operates with input frequency range from 10MHz to 1.0GHz and output frequency range from 20MHz to 2.0GHz.

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

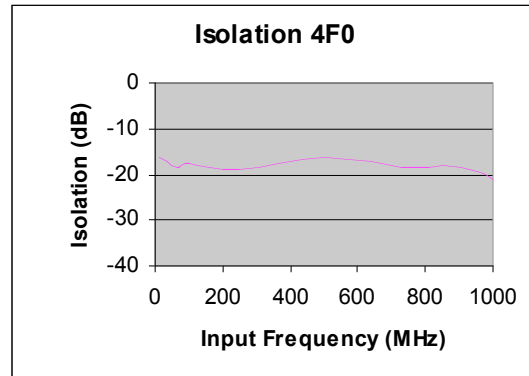
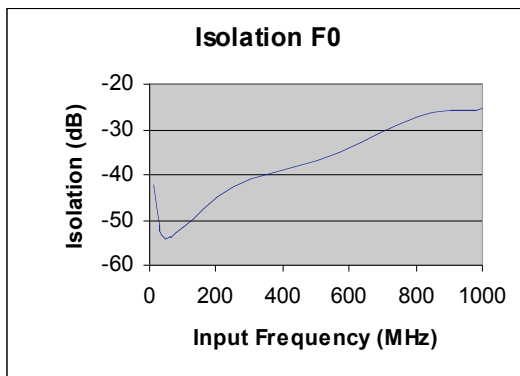
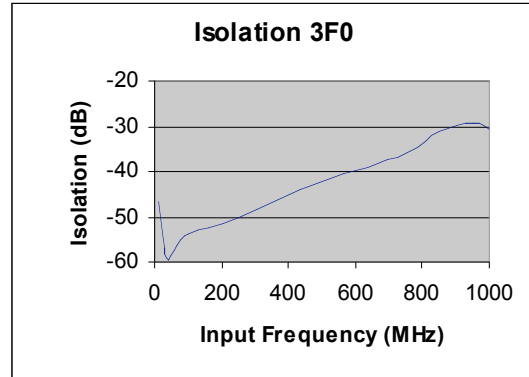
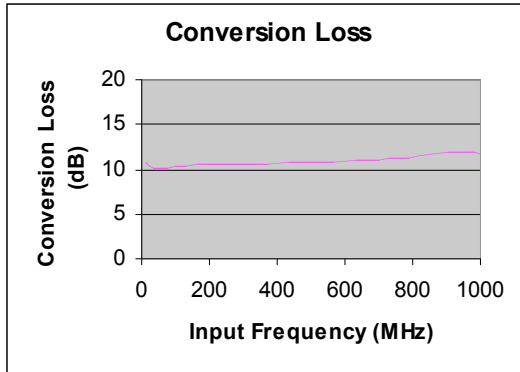
Parameter	Unit	Min.	Typ.	Max.	Min.	Typ.	Max.
Input Frequency Range	GHz	0.01 – 1.0			0.5 – 1.0		
Output Frequency Range	GHz	0.02 – 2.0			1.0 – 2.0		
Conversion Loss	dB		10.5	14		11.5	16
Input power	dBm	12		16	12		16
F0 Isolation *	dB	25	35		20	32	
3F0 Isolation *	dB	25	42		20	37	
4F0 Isolation *	dB	10	20		10	20	

* Isolation with respect to output power level of 2F0

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Typical Performance @ +25 °C



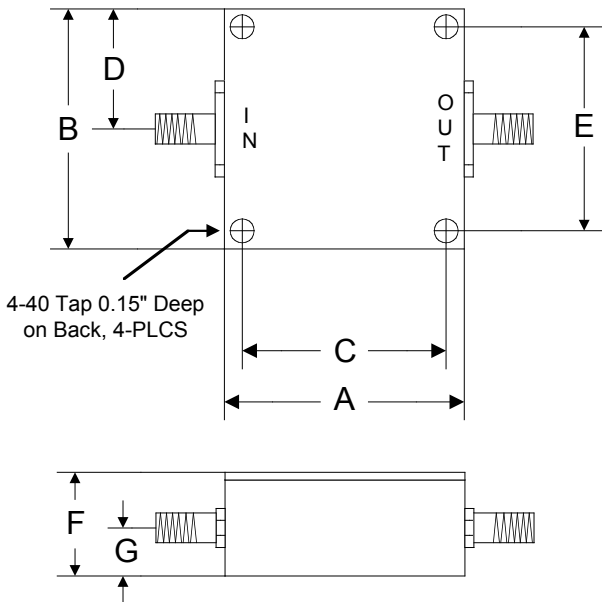
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Absolute Maximum Ratings

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

Outline



	A	B	C	D	E	F	G
Inch	1.250	1.250	1.000	0.625	1.000	0.563	0.250
mm	31.75	31.75	25.40	15.88	25.40	14.29	6.35