

High IF Mixer Module

Product Features

- RF Freq.: 70-110GHz
- LO Freq.: 65GHz~110GHz
- IF Freq.: DC~35GHz
- Conversion Loss: 13dB(typical)
- LO-RF Isolation: 25dB(typical)



Electrical Specs:

Parameter	Minimum	Typical	Maximum
RF Frequency Range	70 GHz		110 GHz
LO Frequency Range	65dB		110dB
IF Frequency Range	DC		35GHz
SSB Conversion Loss		13 dB	
LO-RF Isolation		25 dB	
Input P1dB		5 dBm	
RF Input Power			12dBm
LO Power		13 dBm	17dBm
RF Input port S11		3	
IF Output port S11		3	
Storage Temperature	0 °C		+50 °C
Operating Temperature	+10 °C		+40 °C

Mechanical Specs:

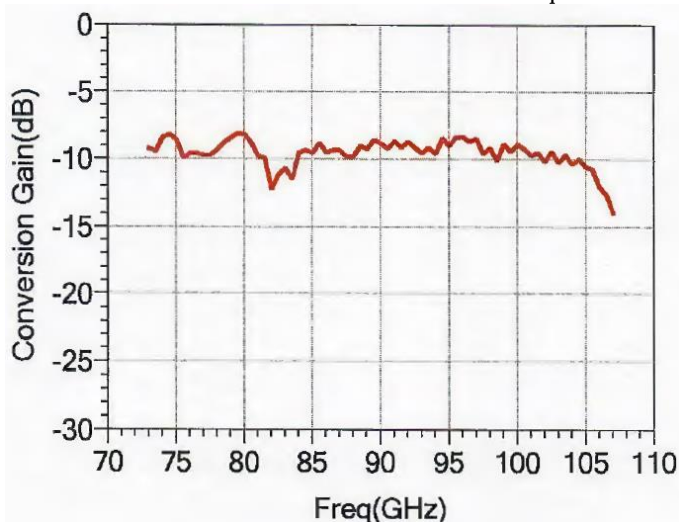
Item	Specification
RF Input	WR10 Waveguide with W/UG-387/U-M Flange
LO Input	WR10 Waveguide with W/UG-387/U-M Flange
IF Output	2.92mm-K
Material	Brass/Gold Plated
Weight	0.15kg
Size (W×L×H)	25 mm×25 mm×22 mm

Measured Performance:

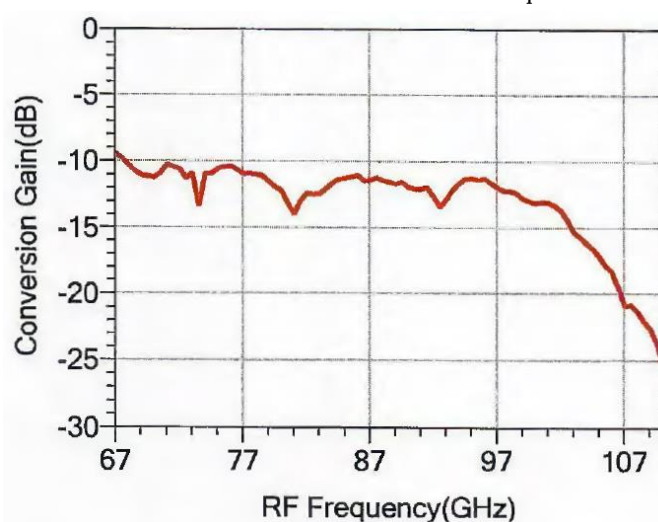
Freq_IF=1GHz, Freq_IF=Freq_RF-Freq_LO;
Pwr_RF=-10dBm, Pwr_LO=13dBm

Freq_LO=66GHz, Freq_IF=Freq_RF-Freq_LO;
Pwr_RF=-10dBm, Pwr_LO=13dBm

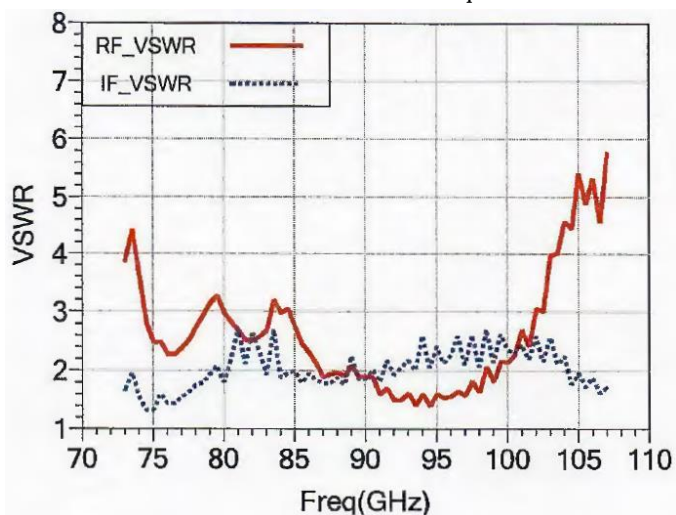
SSB Conversion Loss vs. Freq.



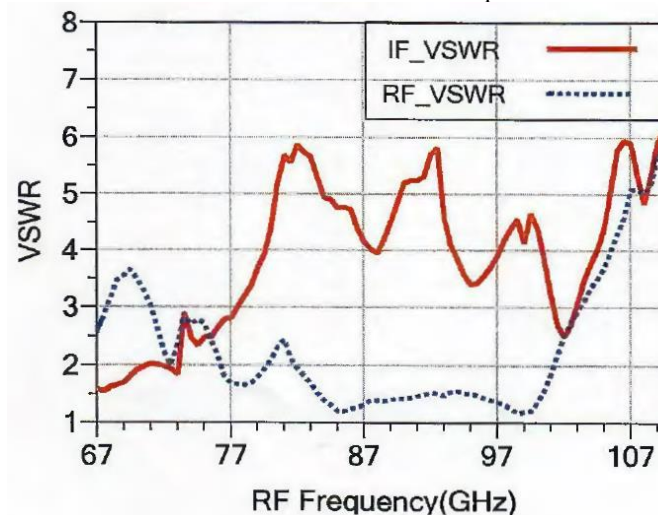
SSB Conversion Loss vs. Freq.



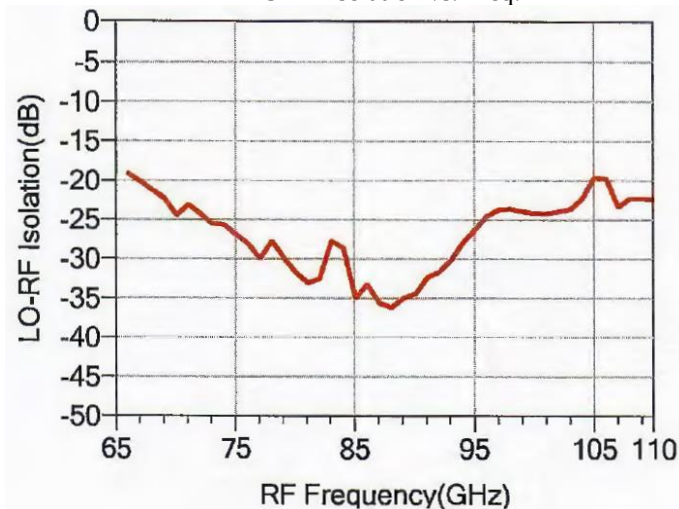
RF S11&IF S11vs. Freq.



RF S11&IF S11vs. Freq.



LO-RF Isolation vs. Freq.



Mechanical Outline:

