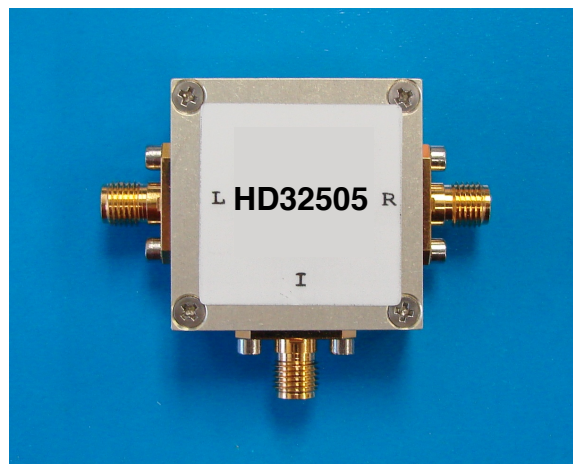


## 100-2500MHz Frequency Mixer

### Features

- LO/RF: 100-2500MHz
- IF: DC-750MHz
- LO Level: +13dBm
- Conversion Loss: 6.5dB
- RF Input: Up to +9dBm
- Input IP3: +18dBm
- SMA Connector

### Picture



### Description

HD32505 is a low loss passive double balanced mixer operates with LO drive level range of +10dBm to +16dBm.

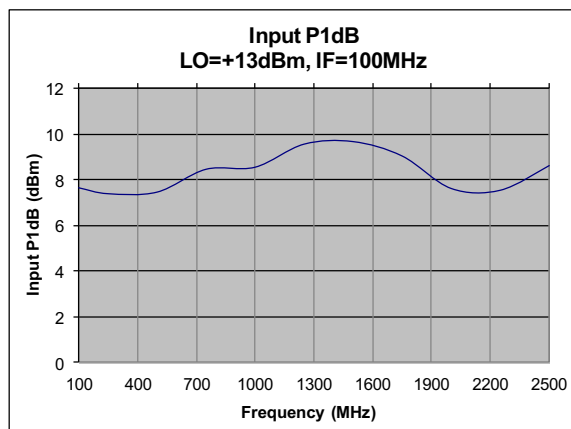
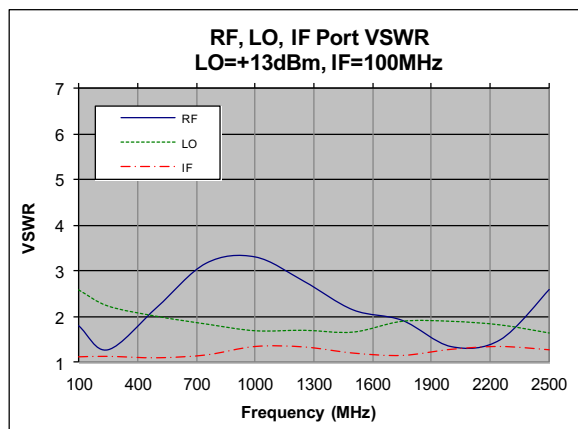
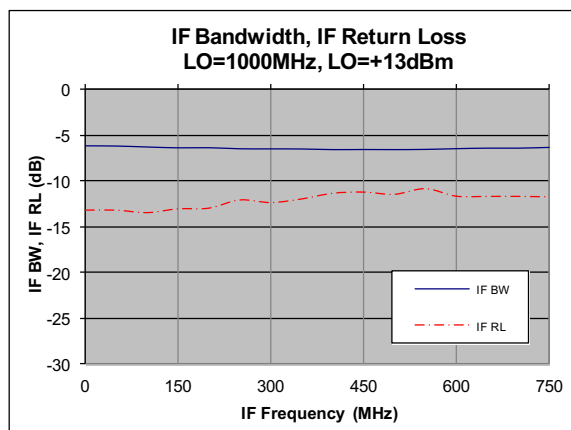
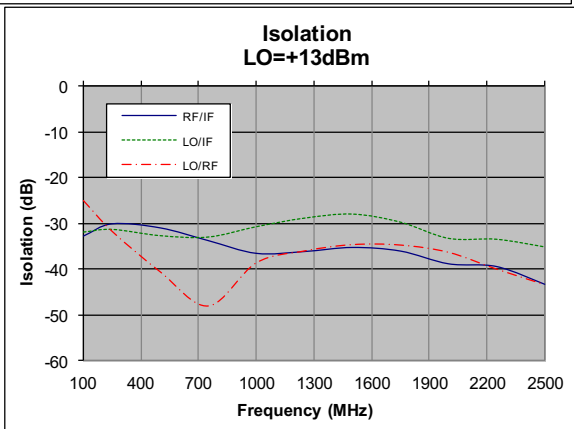
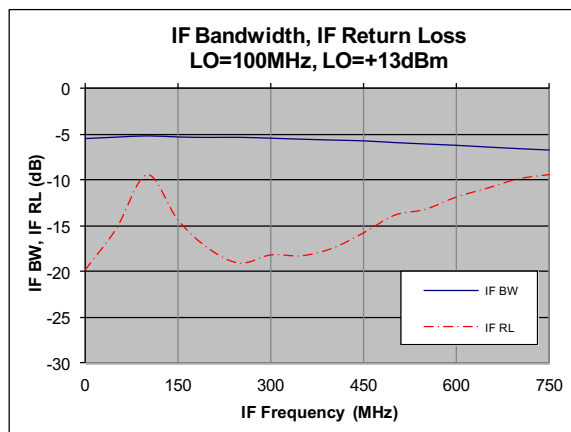
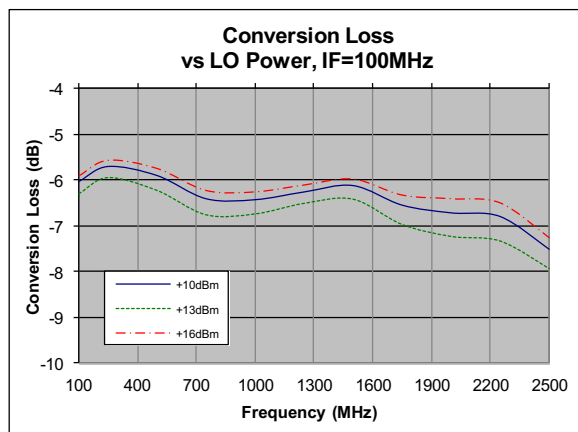
### Electrical Specifications @ +25 °C, LO= +13dBm, IF=100MHz, 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range				
LO/RF	MHz	100		2500
IF	MHz	DC		750
Conversion Loss	dB		6.5	7.5
LO-RF Isolation	dB	20	35	
LO-IF Isolation	dB	25	30	
RF-IF Isolation	dB	30	35	
RF Input Power P <sub>1dB</sub>	dBm		+9	
IP3 (Center Band)	dBm		+18	

Unless otherwise noted, all measurements performed as a downconverter.

## 100-2500MHz Frequency Mixer

### Typical Performance @ +25 °C

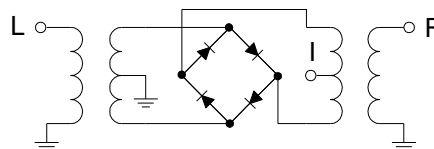


## 100-2500MHz Frequency Mixer

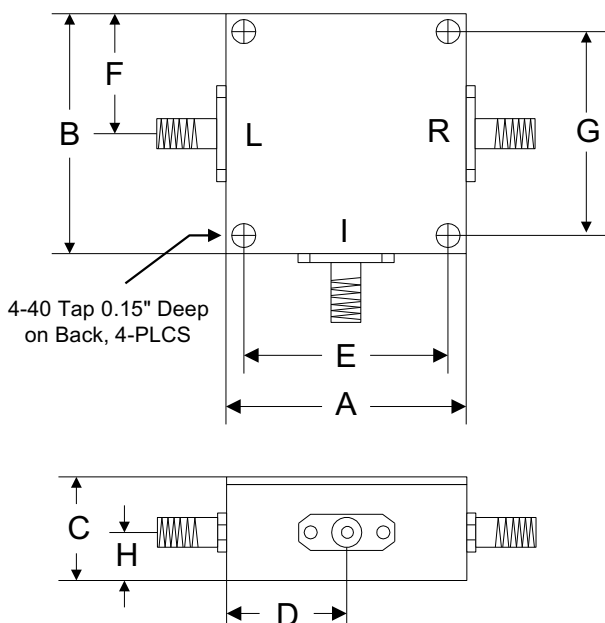
### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF/IF Power	+23dBm
LO Power	+23dBm
Peak IF Current	40mA
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C

### Schematic



### Outline



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