

24-32GHz Frequency Mixer

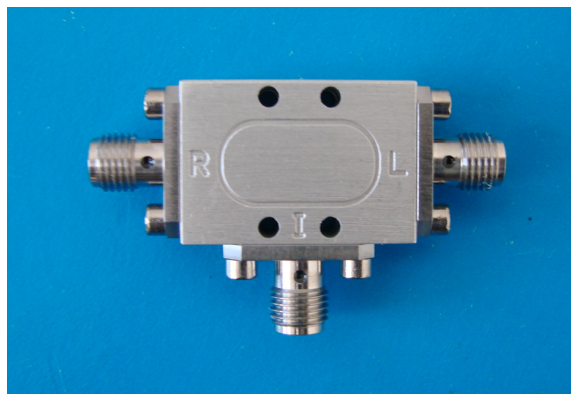
Features

- LO/RF: 24–32GHz
- IF: DC–8GHz
- LO Level: +13dBm
- Conversion Loss: 10.5dB typ.
- RF Input: Up to +13dBm
- Input IP3: +18dBm
- K-2.92mm Female RF/LO Ports
- SMA Female IF Port

Description

HD32516 is a passive double balanced mixer with 24 to 32GHz at RF/LO port and DC to 8GHz at IF port.

Picture

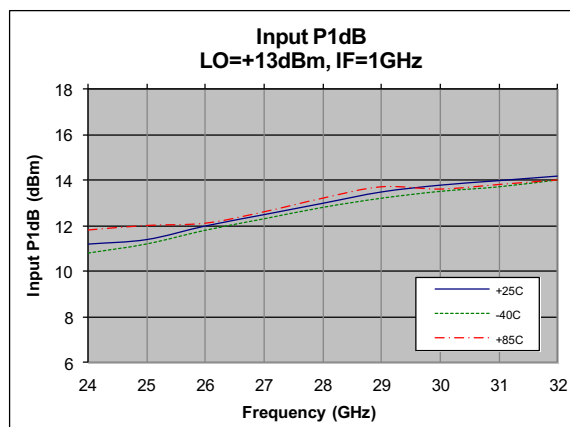
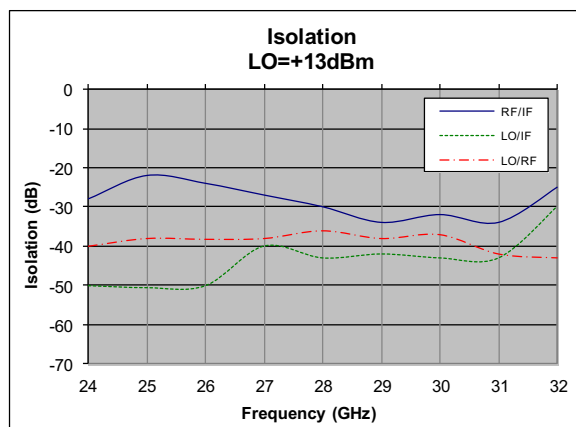
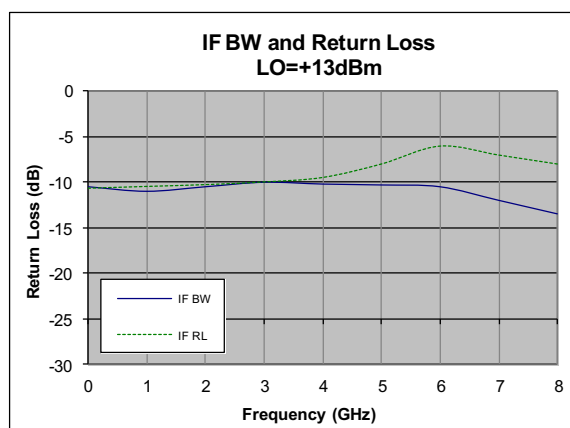
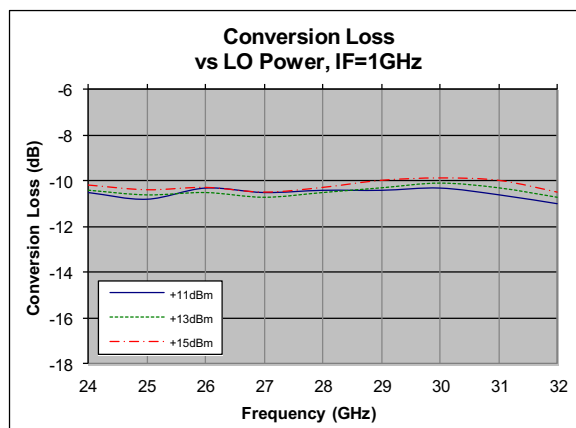
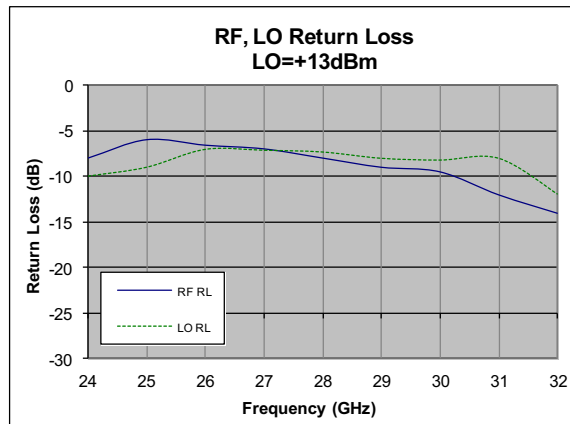
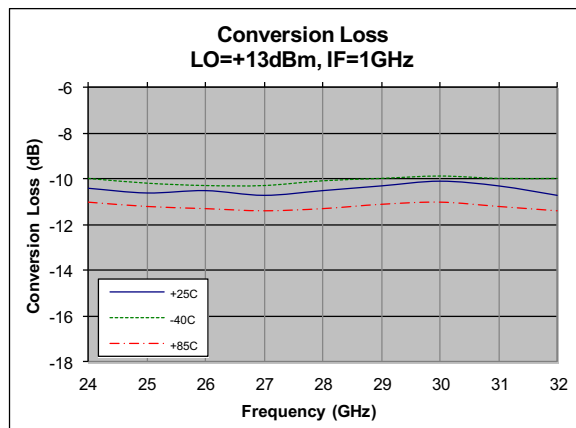


Electrical Specifications @ +25 °C, IF=1GHz, LO=+13dBm, 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range LO/RF	GHz	24		32
IF	GHz	DC		8
LO Power Level	dBm		+13	
Conversion Loss	dB		10.5	12.5
LO-RF Isolation	dB	32	38	
LO-IF Isolation	dB	20	40	
RF-IF Isolation	dB	20	30	
RF Input P _{1dB}	dBm		+13	
Input IP3	dBm		+18	
Input IP2	dBm		+40	

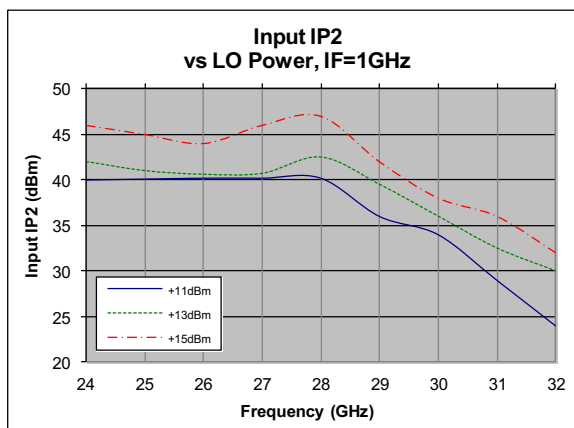
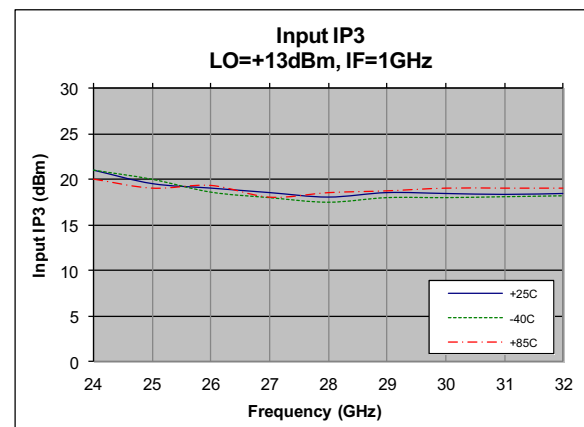
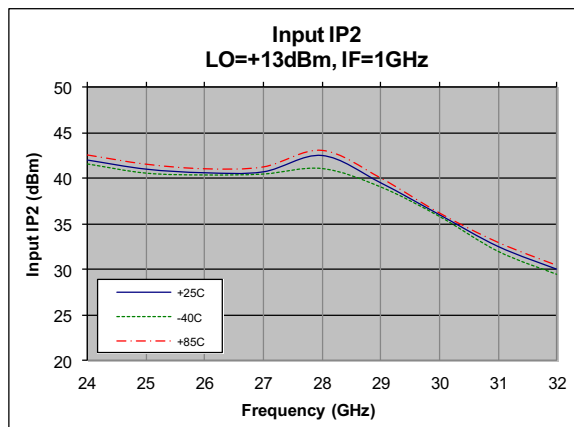
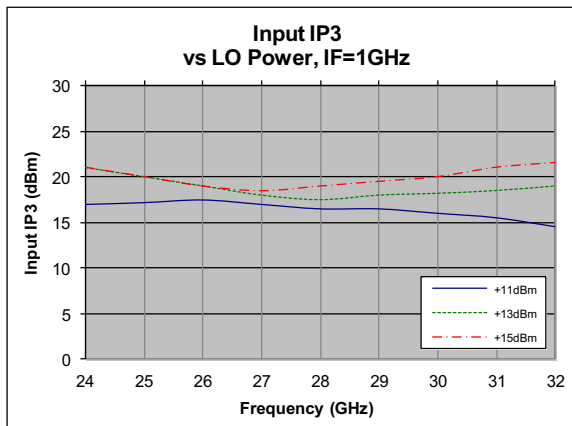
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Typical Performance



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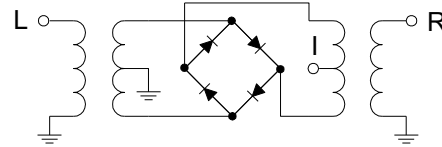


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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF/IF Power	+13dBm
LO Driver	+27dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

Schematic



Outline

