

7-34GHz Frequency Mixer

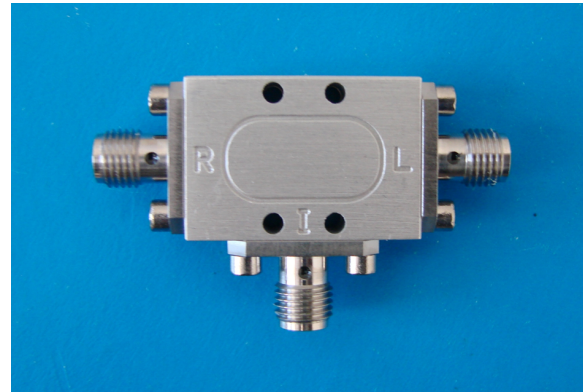
Features

- LO/RF: 7–34GHz
- IF: DC–8GHz
- LO Level: +15dBm
- Conversion Loss: 12dB typ.
- RF Input: Up to +13dBm
- Input IP3: +22dBm
- K-2.92mm Female RF/LO Ports
- SMA Female IF Port

Description

HD32512 is a passive double balanced mixer with 7 to 34GHz at RF/LO port and DC to 8GHz at IF port.

Picture

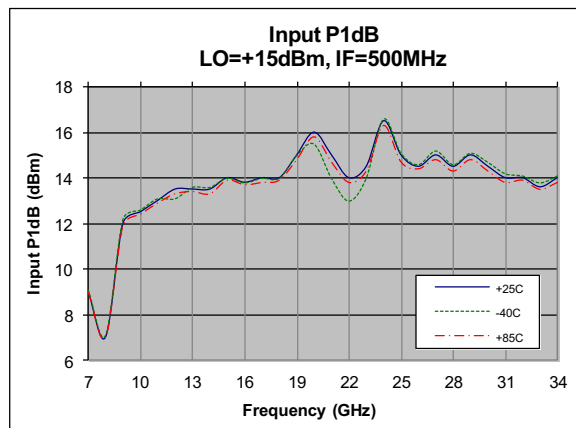
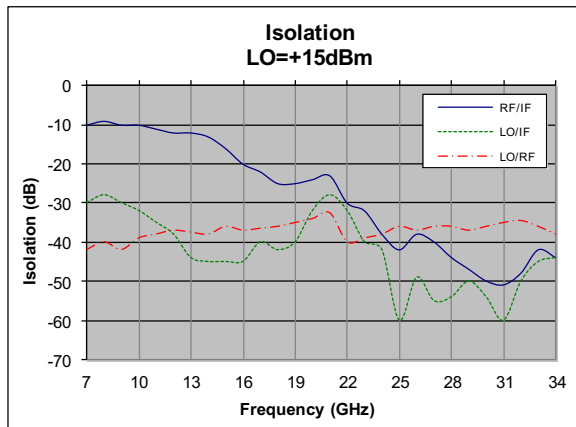
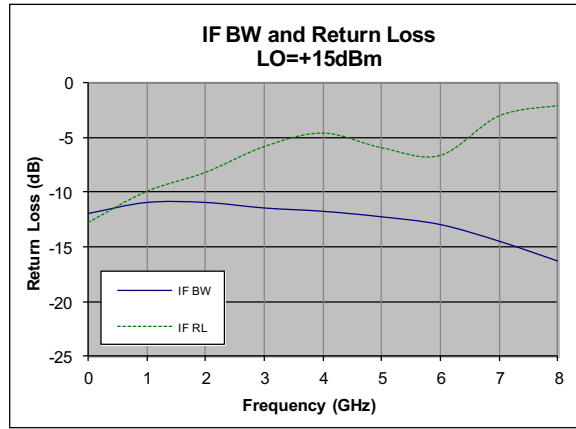
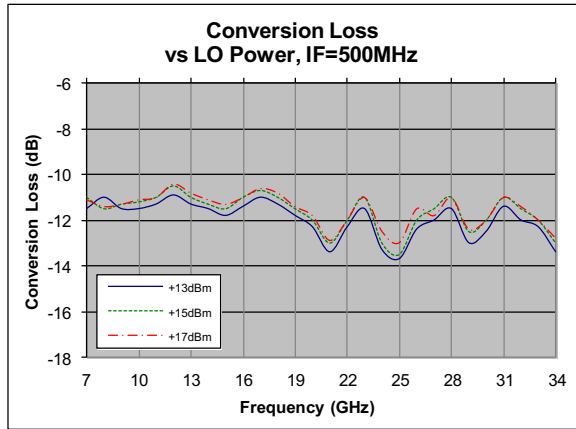
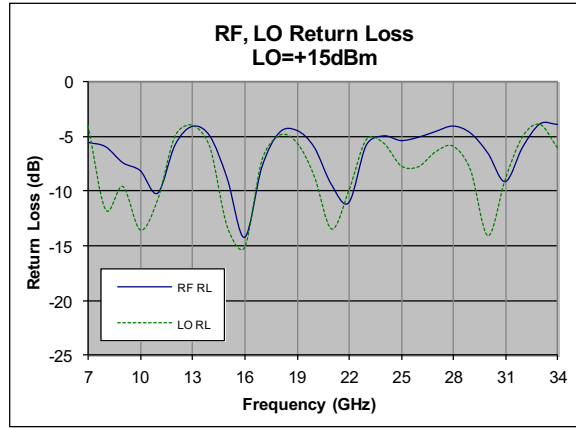
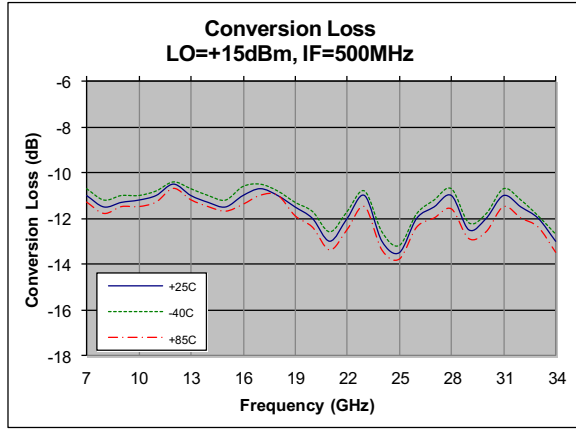


Electrical Specifications @ +25 °C, IF=500MHz, LO=+15dBm, 50 Ω

Parameter		Unit	Minimum	Typical	Maximum
Frequency Range	LO/RF	GHz	7		34
	IF	GHz	DC		8
LO Power Level		dBm	+13	+15	+17
Conversion Loss	LO/RF: 7-20GHz	dB		11	14
	LO/RF: 20-34GHz	dB		12	15
LO-RF Isolation	LO/RF: 7-20GHz	dB		35	
	LO/RF: 20-34GHz	dB		35	
LO-IF Isolation	LO/RF: 7-20GHz	dB	20	30	
	LO/RF: 20-34GHz	dB	25	40	
RF-IF Isolation	LO/RF: 7-20GHz	dB	7	10	
	LO/RF: 20-34GHz	dB	13	20	
RF Input P _{1dB}	LO/RF: 7-20GHz	dBm		+12	
	LO/RF: 20-34GHz	dBm		+13	
Input IP3	LO/RF: 7-20GHz	dBm		+20	
	LO/RF: 20-34GHz	dBm		+22	

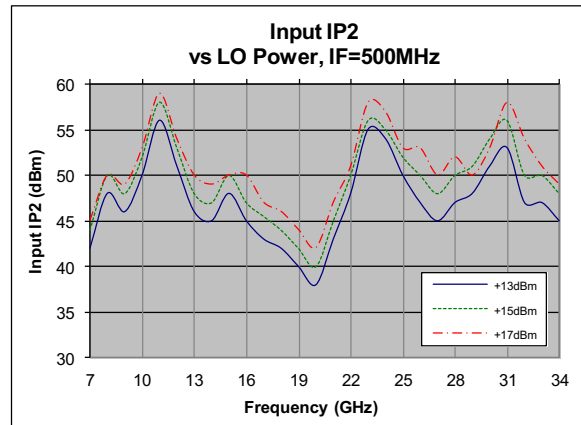
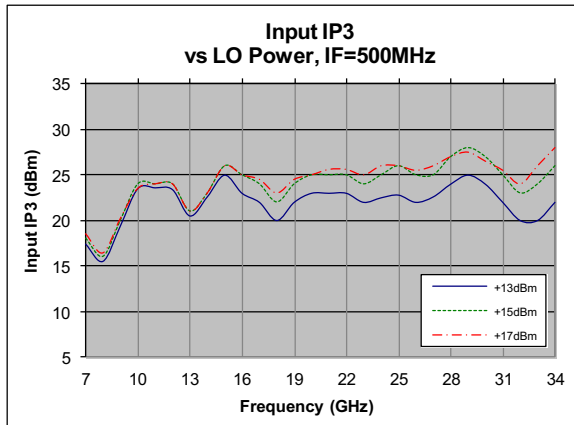
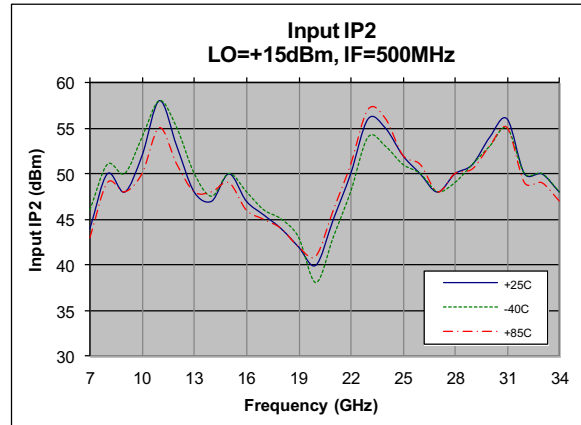
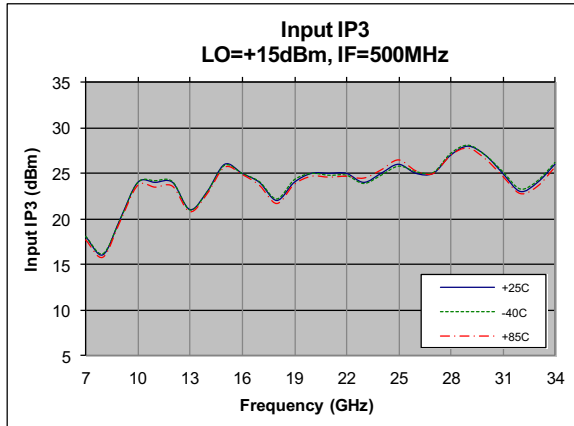
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Typical Performance



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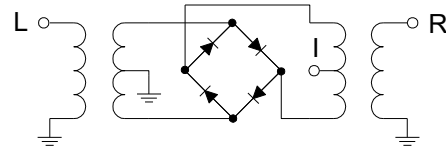


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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	+21dBm
LO Driver	+27dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

Schematic



Outline

