

3-10GHz Frequency Mixer

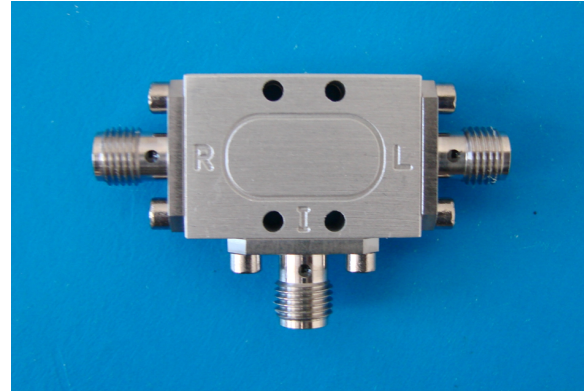
Features

- LO/RF: 3–10GHz
- IF: DC–4GHz
- LO Level: +17dBm
- Conversion Loss: 9dB typ.
- RF Input: Up to +15dBm
- Input IP3: +23dBm
- SMA Female All Ports

Description

HD32508 is a passive double balanced mixer with 3 to 10GHz at RF/LO port and DC to 4GHz at IF port. The mixer operates with LO drive level +17dBm.

Picture



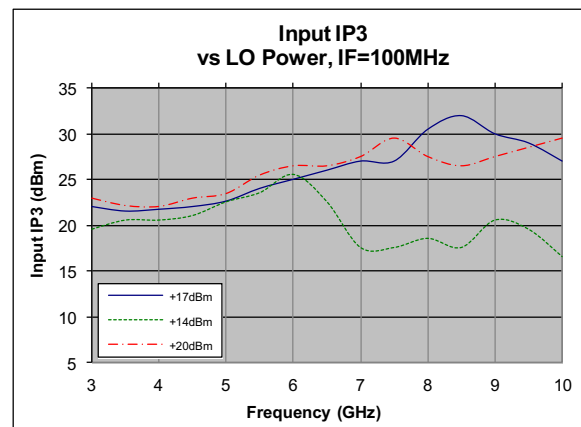
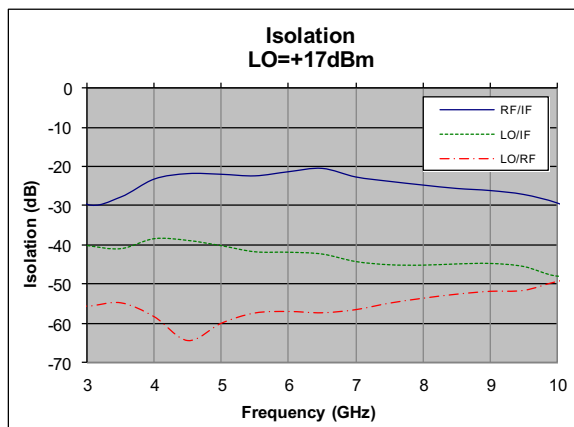
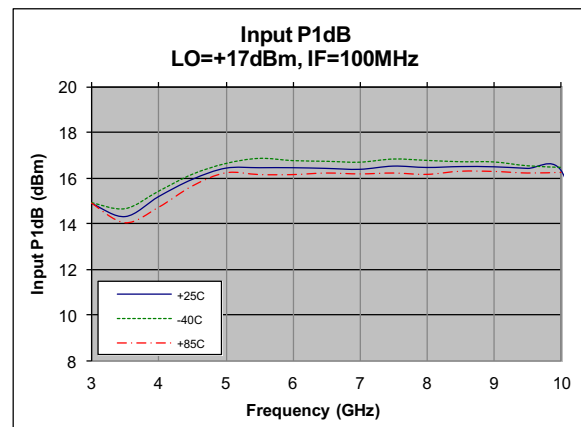
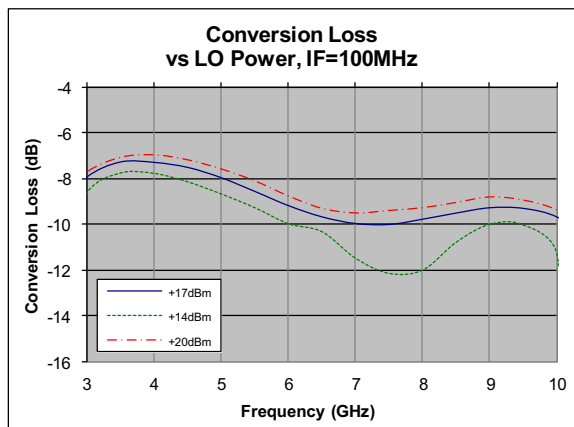
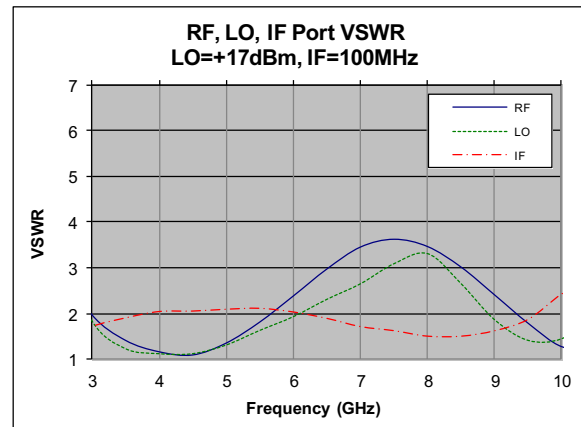
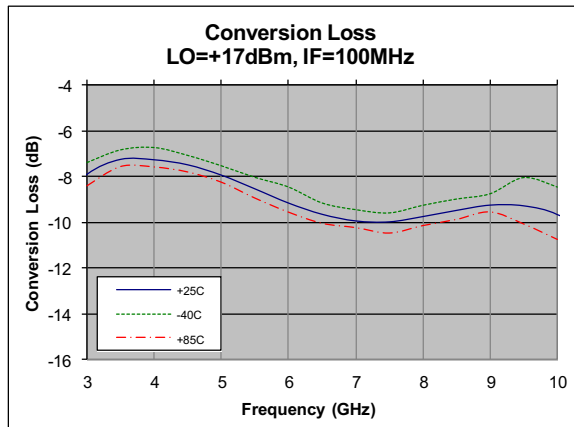
Electrical Specifications @ +25 °C, IF=100MHz, LO=+17dBm, 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range LO/RF	GHz	3		10
IF	GHz	DC		4
Conversion Loss	dB		9	12
LO-RF Isolation	dB	48	55	
LO-IF Isolation	dB	35	42	
RF-IF Isolation	dB	13	20	
RF Input P _{1dB}	dBm		+15	
Input IP2	dBm		+70	
Input IP3	dBm		+23	

Unless otherwise noted, all measurements performed as a downconverter.

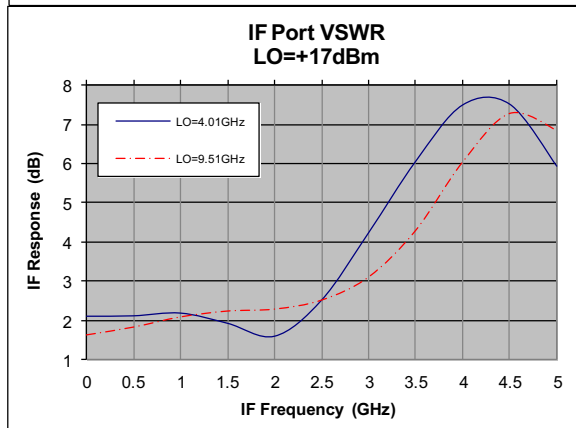
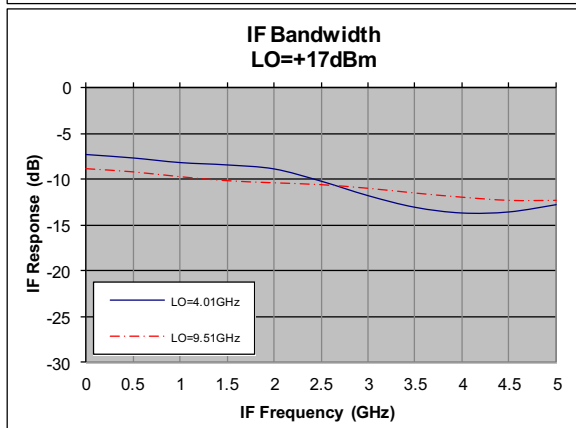
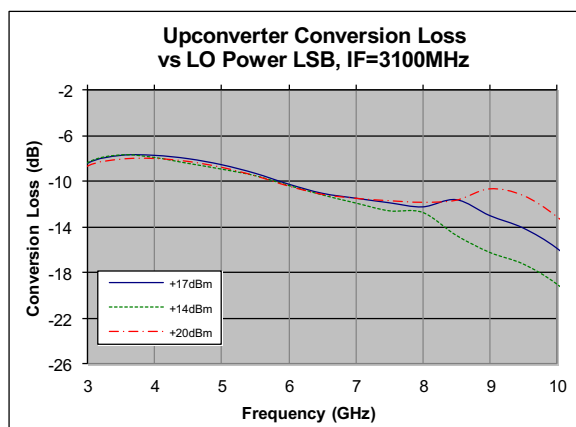
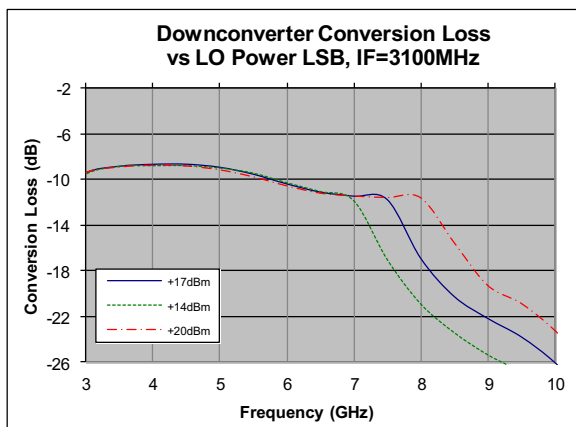
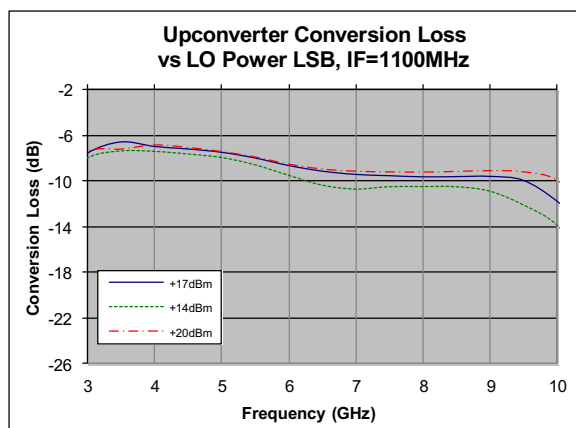
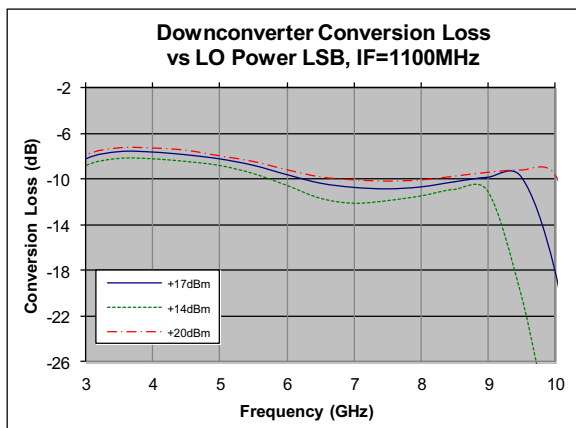
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Typical Performance



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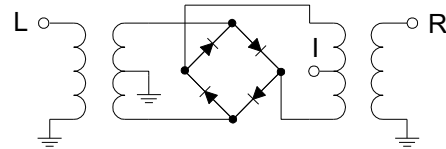


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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	+26dBm
LO Driver	+26dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

Schematic



Outline

