

9-15GHz Frequency Mixer

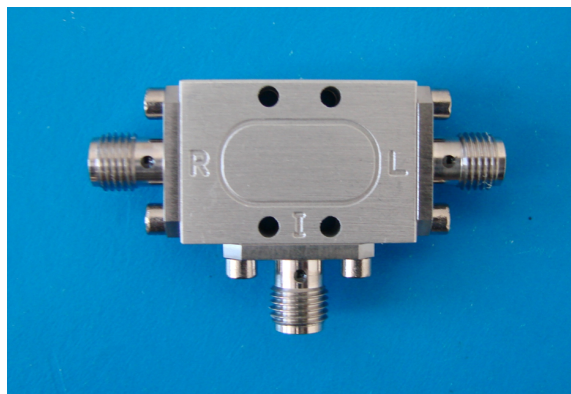
Features

- LO/RF: 9–15GHz
- IF: DC–2.5GHz
- LO Level: +13dBm
- Conversion Loss: 8.5dB typ.
- RF Input: Up to +9.5dBm
- Input IP3: +17dBm
- SMA Female All Ports

Description

HD32521 is a passive double balanced mixer with 9 to 15GHz at RF/LO port and DC to 2.5GHz at IF port. The mixer operates with LO drive level +13dBm.

Picture

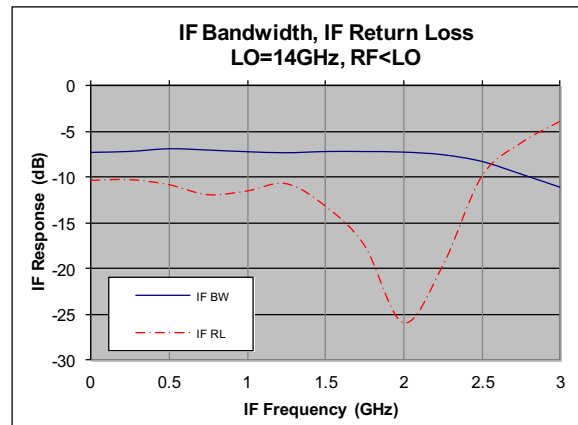
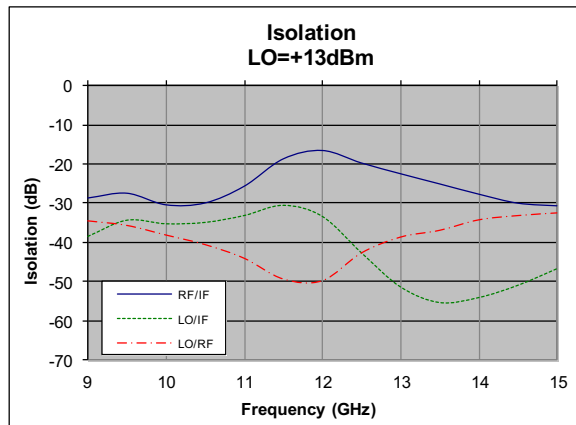
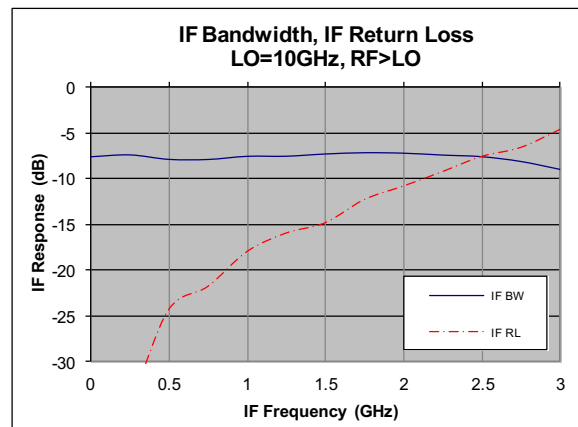
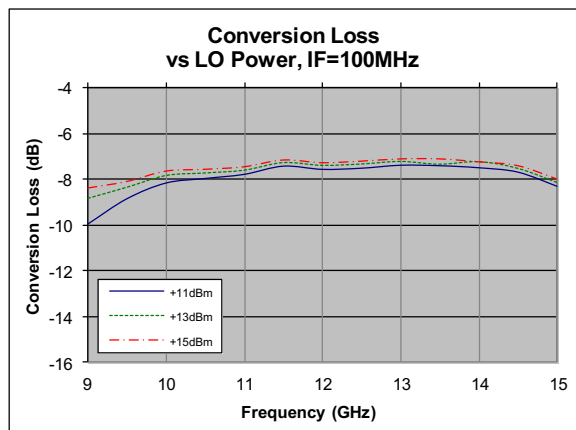
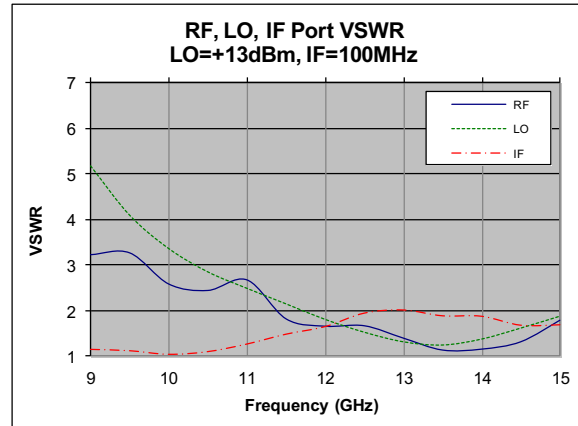
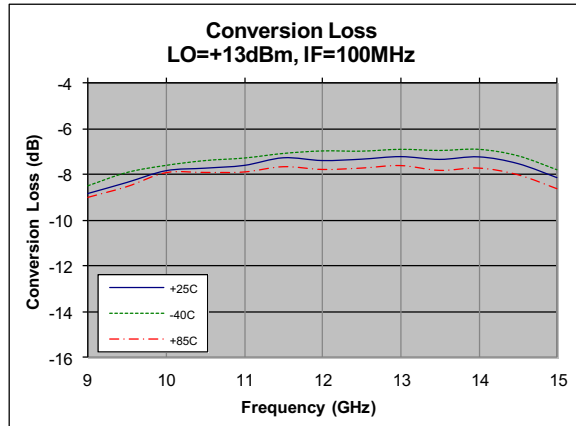


Electrical Specifications @ +25 °C, IF=100MHz, LO=+13dBm, 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range LO/RF	GHz	9		15
IF	GHz	DC		2.5
Conversion Loss	dB		8.5	11
LO-RF Isolation	dB	30	40	
LO-IF Isolation	dB	33	40	
RF-IF Isolation	dB	8	17	
RF Input P _{1dB}	dBm	+7	+9.5	
Input IP3	dBm	+14	+17	
Input IP2	dBm		+50	

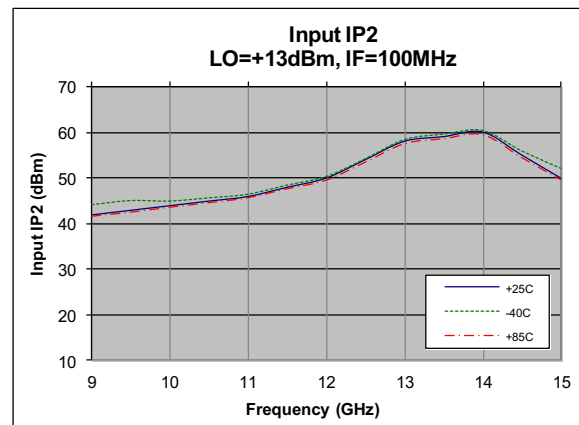
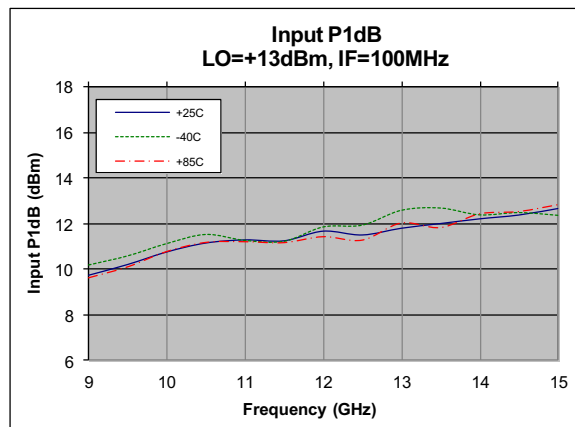
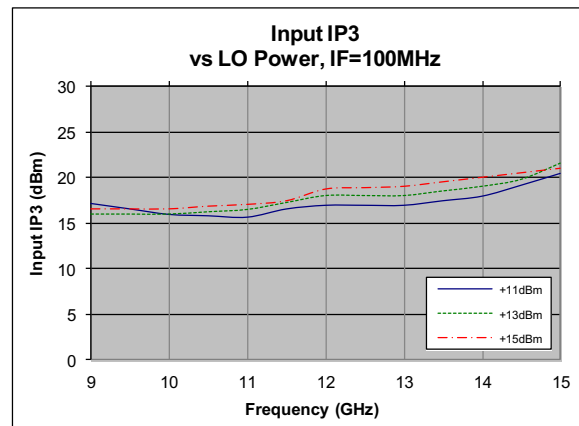
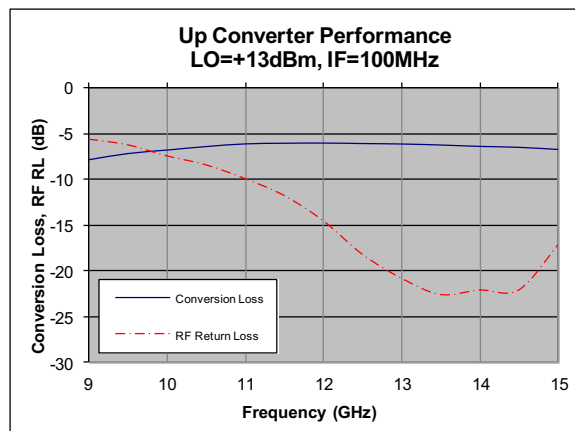
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Typical Performance

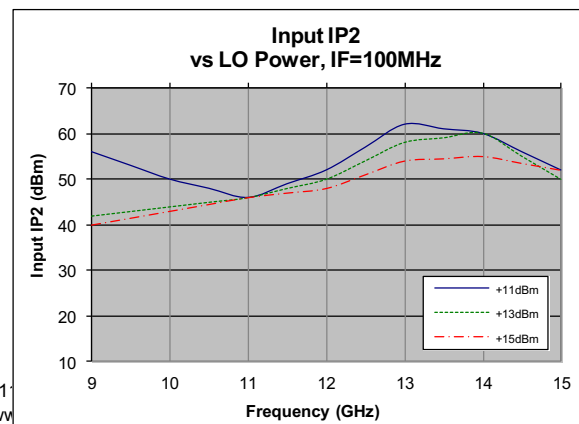
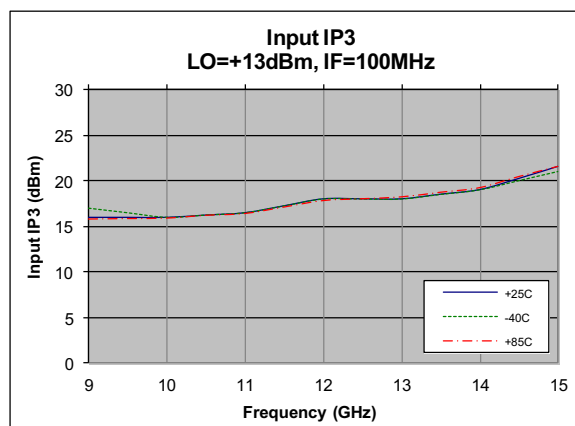


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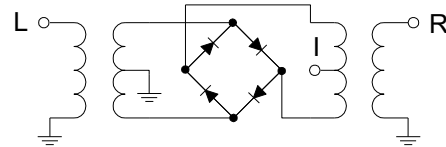
Absolute Maximum Ratings



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Parameter	Absolute Maximum
RF IF Power	+27dBm
LO Driver	+27dBm
IF DC Current	±4mA
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

Schematic



Outline

