

1.5-4.5GHz Frequency Mixer

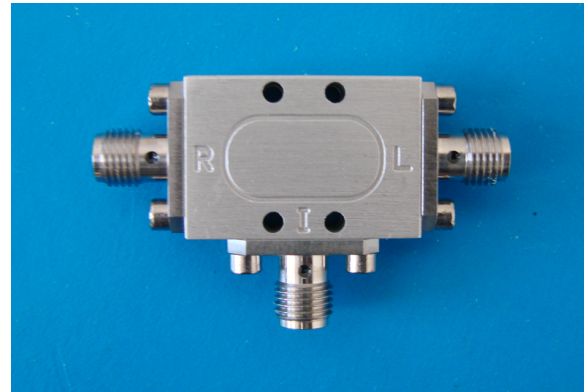
Features

- LO/RF: 1.5–4.5GHz
- IF: DC–1.5GHz
- LO Level: +13dBm
- Conversion Loss: 8.5dB typ.
- RF Input: Up to +10dBm
- Input IP3: +19dBm
- SMA Female All Ports

Description

HD32519 is a passive double balanced mixer with 1.5 to 4.5GHz at RF/LO port and DC to 1.5GHz at IF port. The mixer operates with LO drive level +13dBm.

Picture

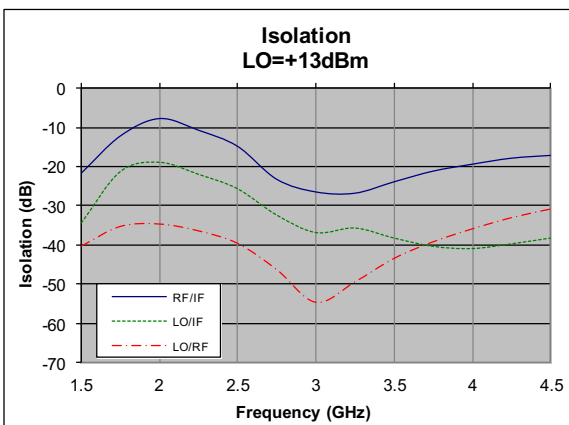
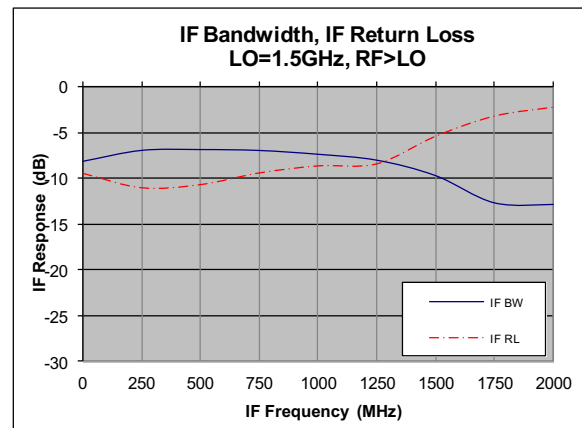
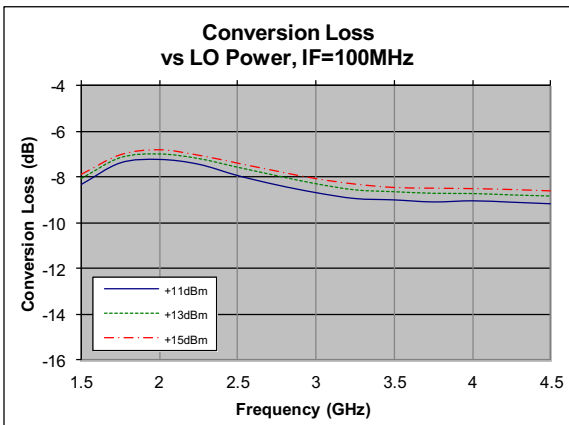
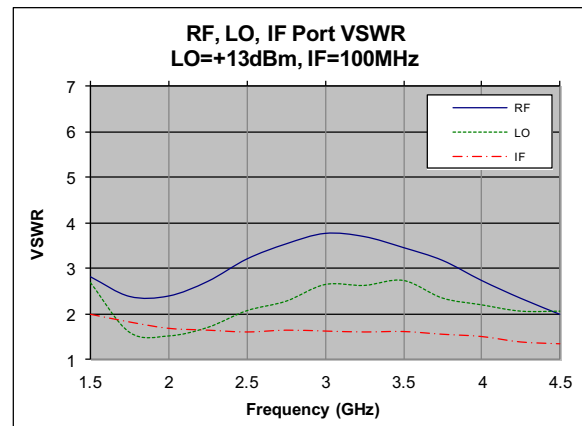
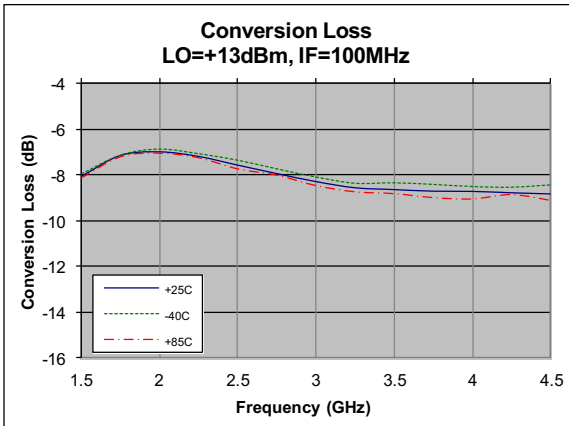


Electrical Specifications @ +25 °C, IF=100MHz, LO=+13dBm, 50 Ω

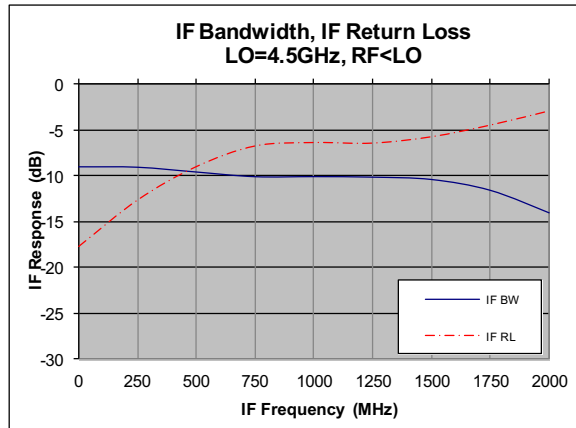
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range LO/RF	GHz	1.5		4.5
IF	GHz	DC		1.5
Conversion Loss	dB		8.5	10
LO-RF Isolation	dB	29	40	
LO-IF Isolation	dB	27	35	
RF-IF Isolation	dB	5	11	
RF Input P _{1dB}	dBm	+7	+10	
Input IP3	dBm	+16	+19	
Input IP2	dBm		+48	

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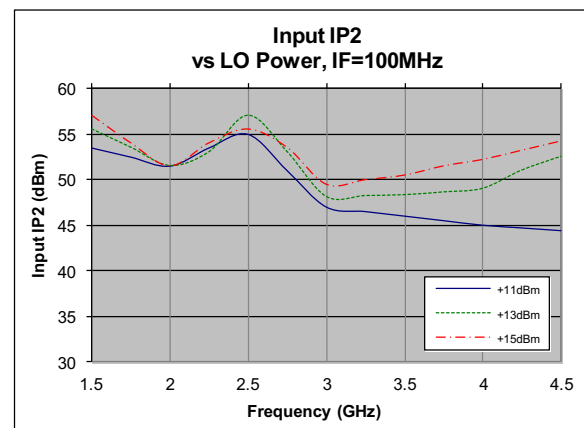
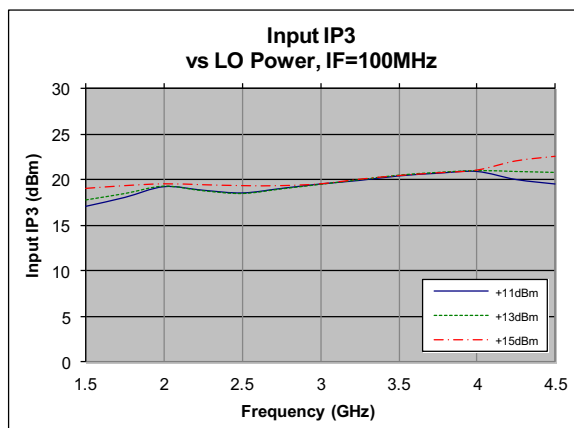
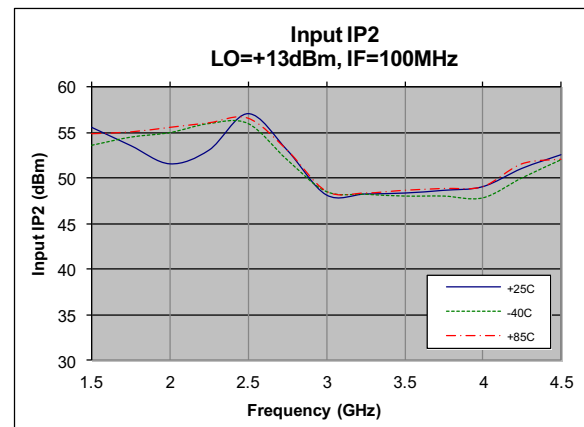
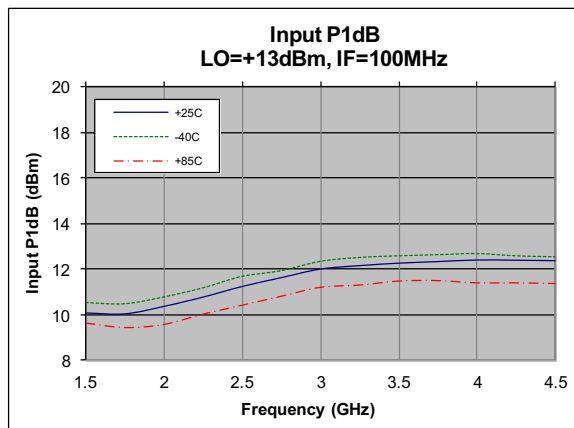
Typical Performance



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Typical Performance





HD32519

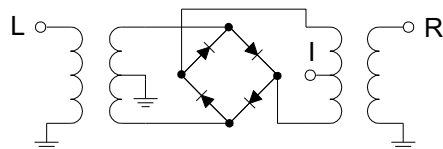
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Absolute Maximum Ratings

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

