

20-32GHz Frequency Mixer

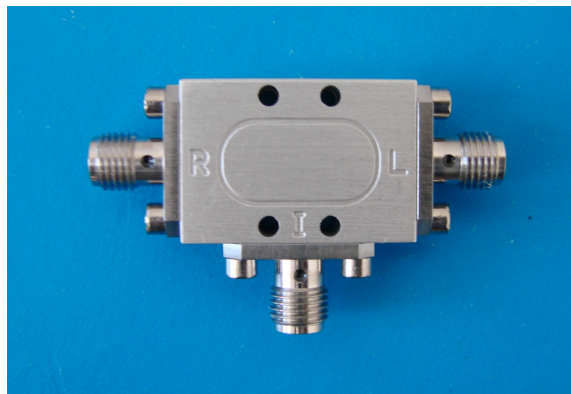
Features

- LO/RF: 20–32GHz
- IF: DC–10GHz
- LO Level: +13dBm
- Conversion Loss: 7dB typ.
- RF Input: Up to +19dBm
- Input IP3: +18dBm
- SMA Female All Ports

Description

HD32525 is a passive double balanced mixer with 20 to 32GHz at RF/LO port and DC to 10GHz at IF port. The mixer operates with LO drive level range from +10dBm to +16dBm.

Picture



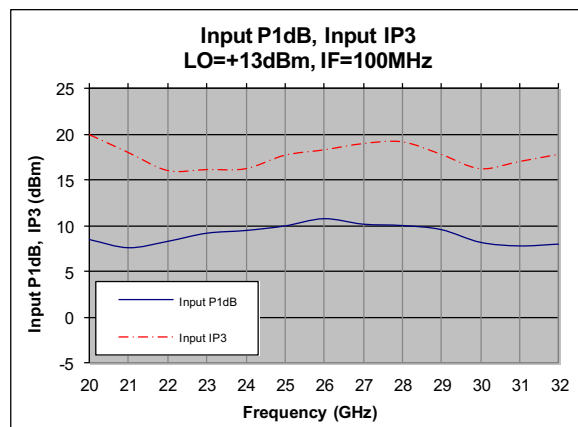
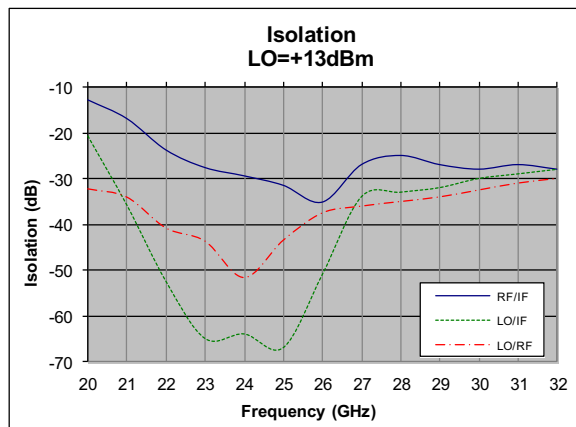
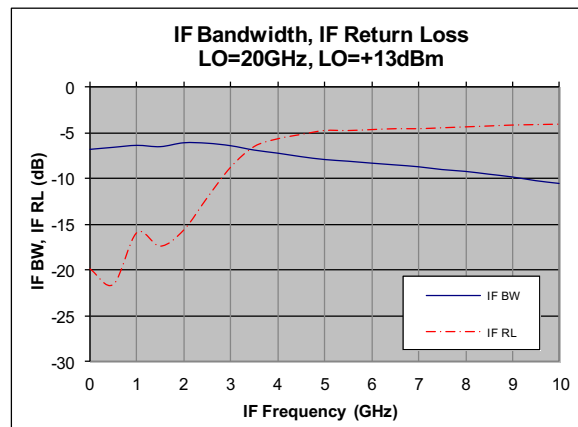
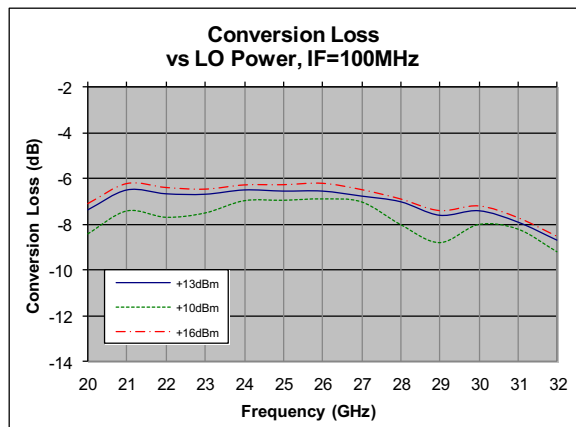
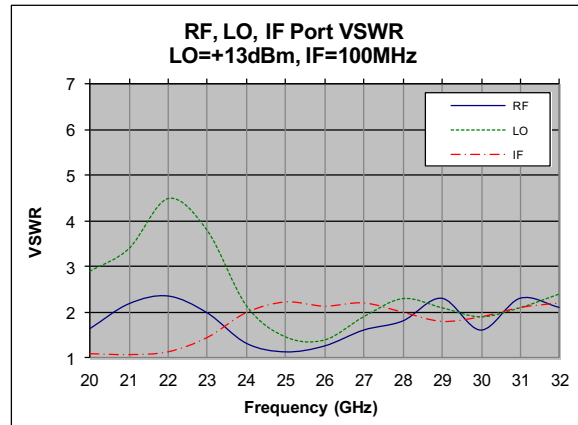
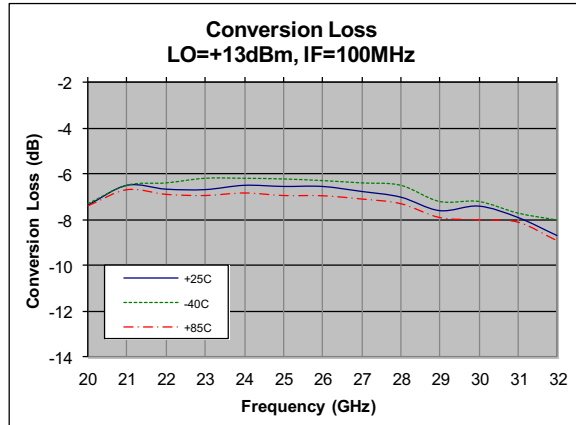
Electrical Specifications @ +25 °C, IF=100MHz, LO=+13dBm, 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range LO/RF	GHz	20		32
IF	GHz	DC		10
Conversion Loss	dB		7	9
LO-RF Isolation	dB		36	
LO-IF Isolation	dB		36	
RF-IF Isolation	dB		26	
RF Input P _{1dB}	dBm		+9	
Input IP3	dBm		+18	

Unless otherwise noted, all measurements performed as a downconverter.

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Typical Performance

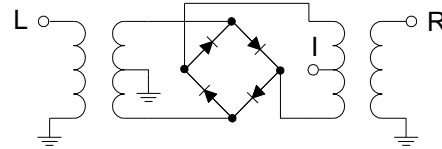


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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	+25dBm
LO Driver	+25dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

Schematic



Outline

