

4.5-9GHz Frequency Mixer

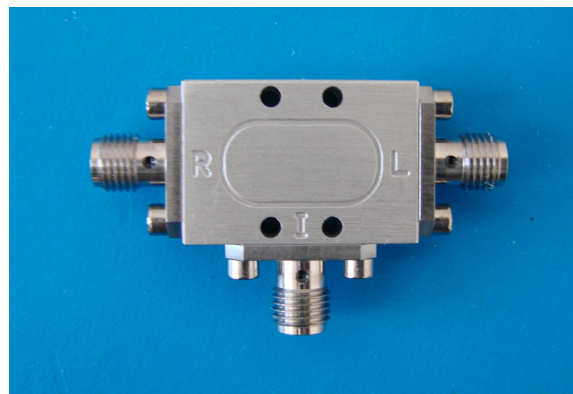
Features

- LO/RF: 4.5–9GHz
- IF: DC–2.5GHz
- LO Level: +13dBm
- Conversion Loss: 8.5dB typ.
- RF Input: Up to +10dBm
- Input IP3: +21dBm
- SMA Female All Ports

Description

HD32520 is a passive double balanced mixer with 4.5 to 9GHz at RF/LO port and DC to 2.5GHz at IF port. The mixer operates with LO drive level +13dBm.

Picture

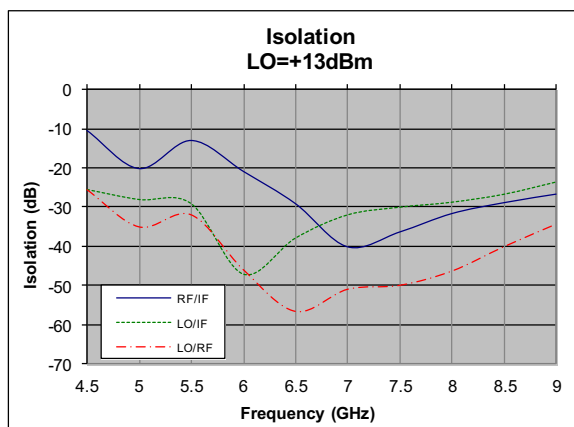
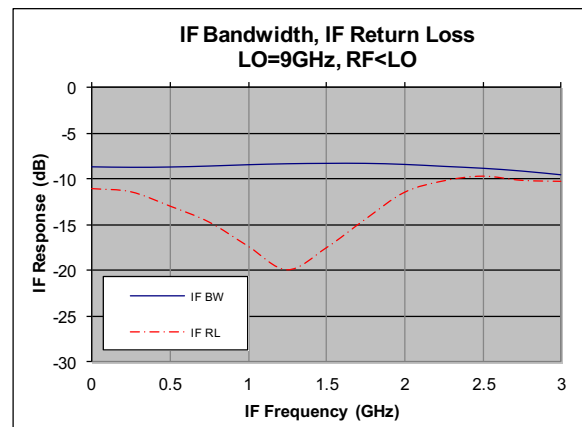
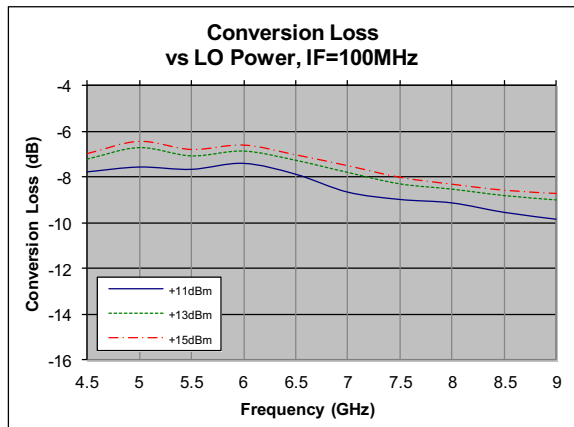
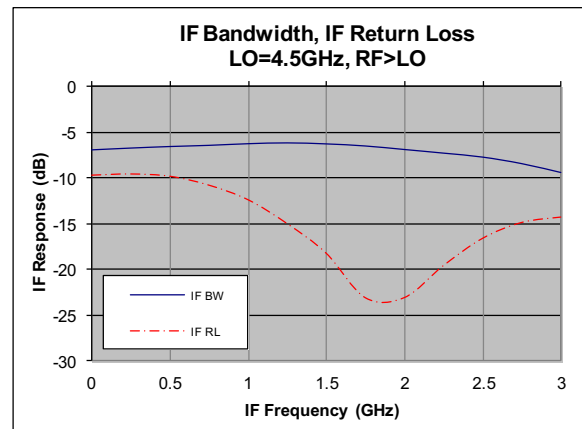
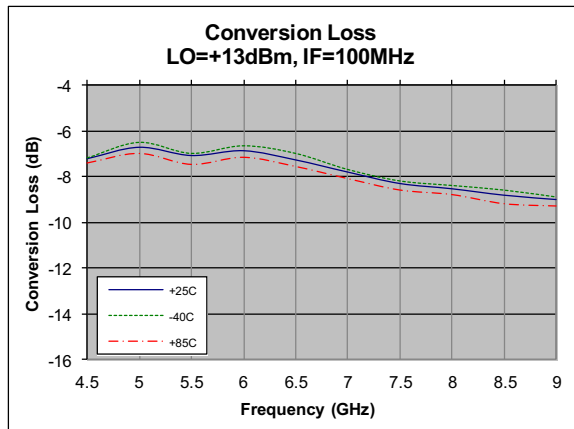


Electrical Specifications @ +25 °C, IF=100MHz, LO=+13dBm, 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range LO/RF	GHz	4.5		9
IF	GHz	DC		2.5
Conversion Loss	dB		8.5	10
LO-RF Isolation	dB	17	25	
LO-IF Isolation	dB	17	25	
RF-IF Isolation	dB	15	20	
RF Input P _{1dB}	dBm	+7	+10	
Input IP3	dBm	+15	+21	
Input IP2	dBm		+40	

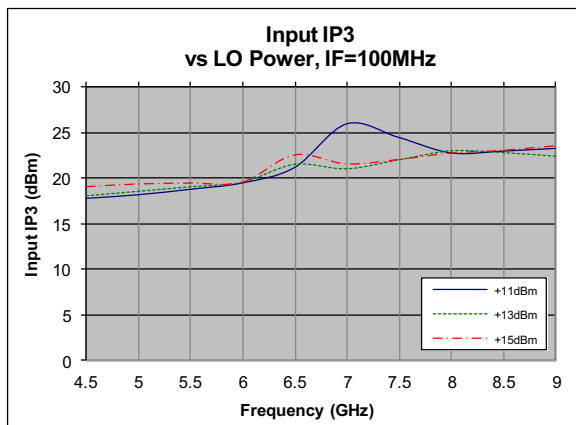
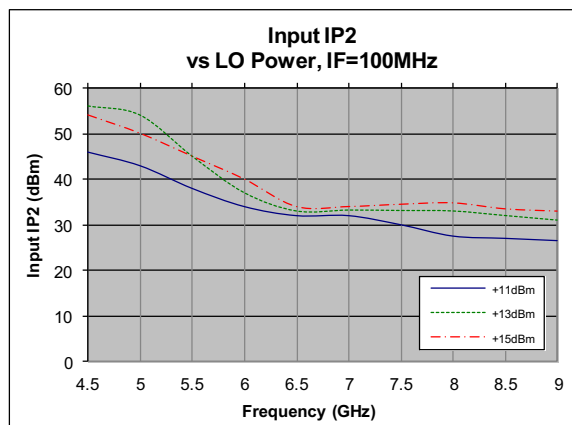
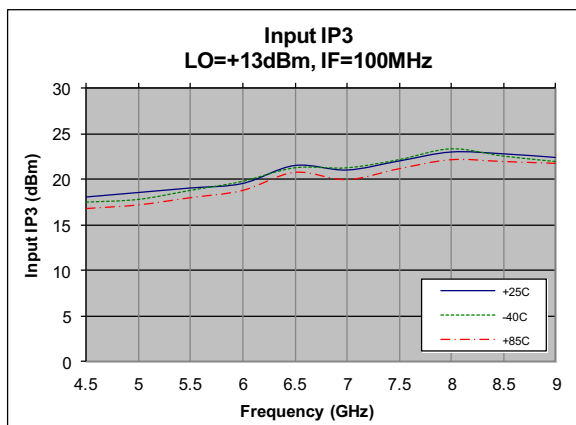
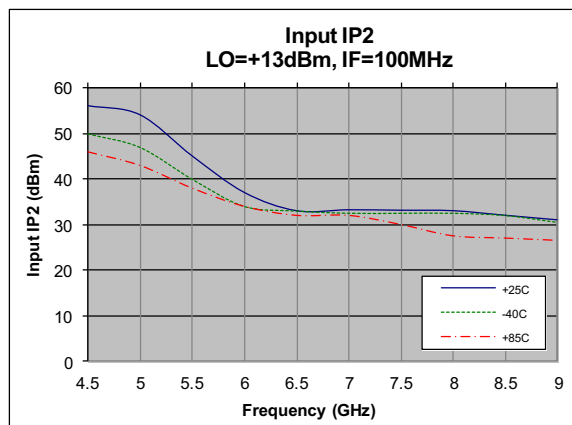
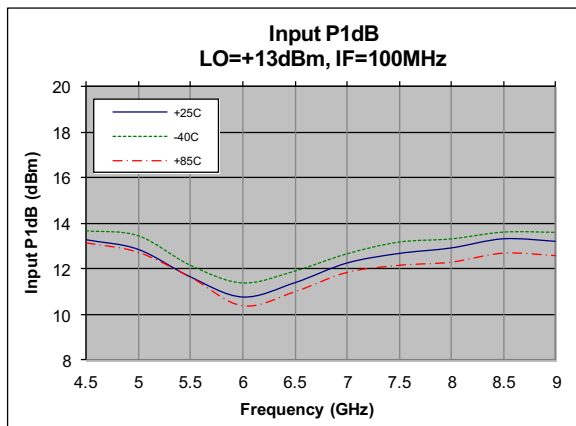
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Typical Performance



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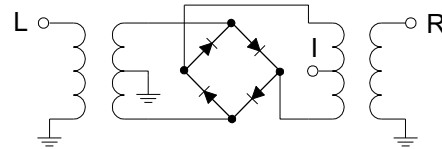


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Absolute Maximum Ratings

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

