

DESCRIPTION

AMCOM's AM06014009XD-P4 is a passive double balanced mixer with 6 to 14GHz at RF/LO port and DC to 5GHz at IF port. The mixer operates with LO drive level range from +9dBm to +16dBm.



FEATURES

- LO/RF: 6–14GHz
- IF: DC–5GHz
- LO Level: +13dBm
- Conversion Loss: 6.5dB typ.
- RF Input: Up to +9.5dBm
- Input IP3: +16dBm
- SMA Female All Ports

APPLICATIONS

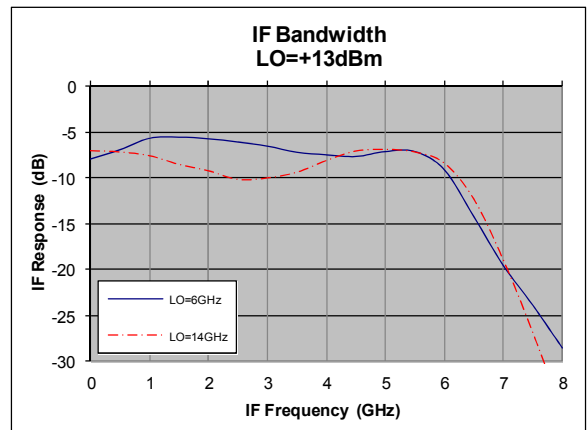
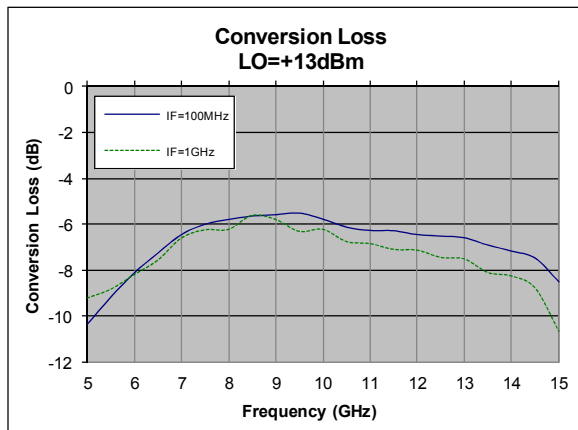
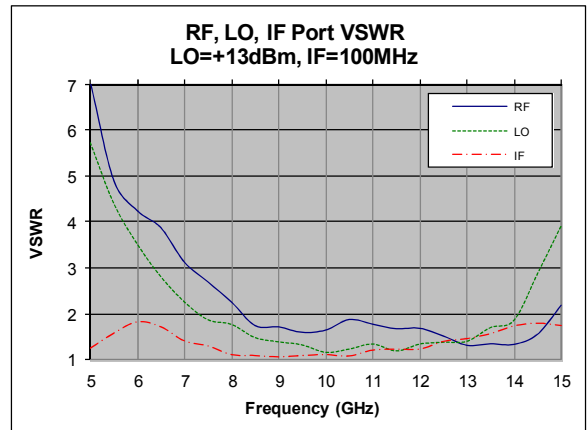
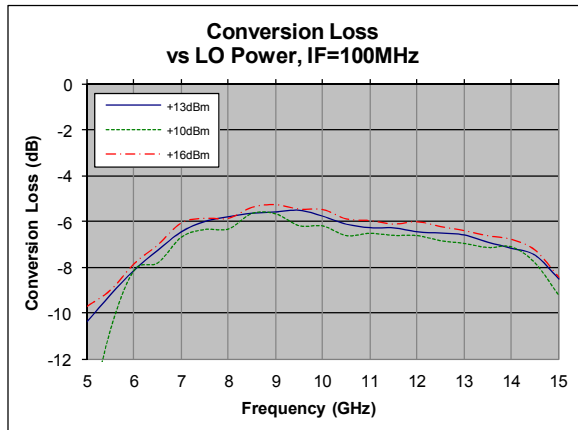
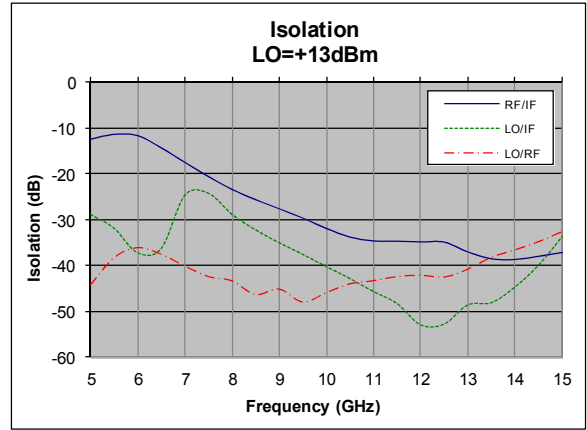
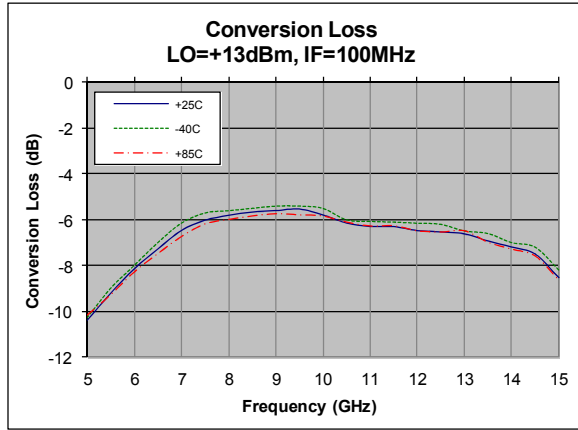
- Telecom Infrastructure
- Military & Aerospace
- VSAT
- Test & Instrumentation
- Radar
- Communication

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

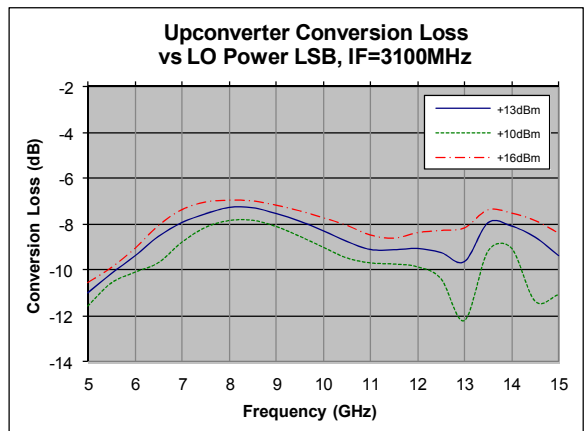
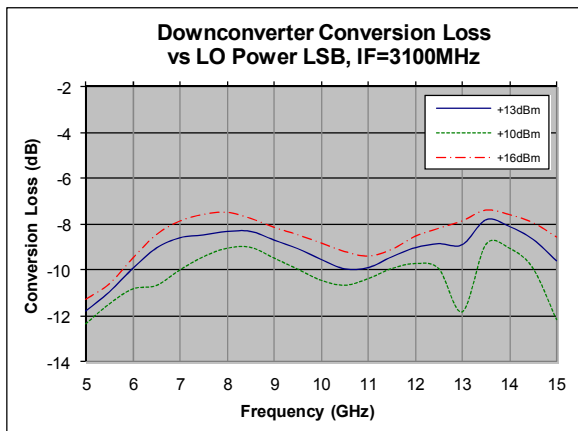
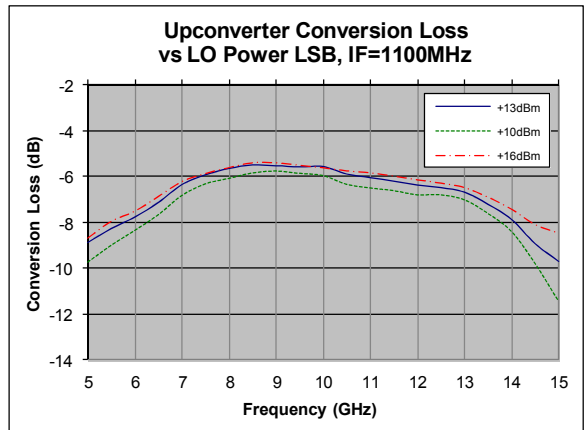
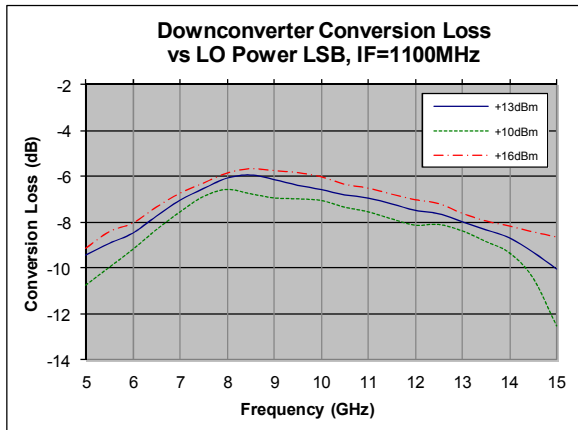
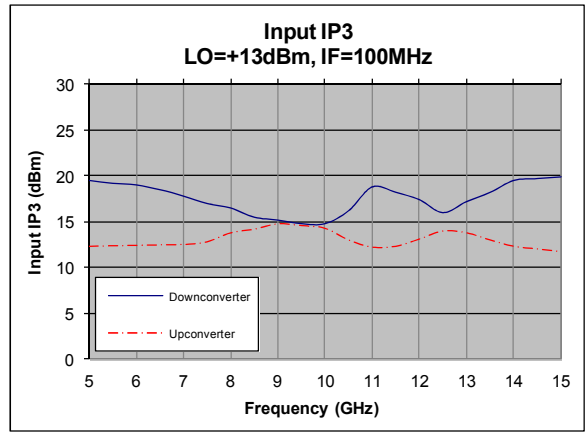
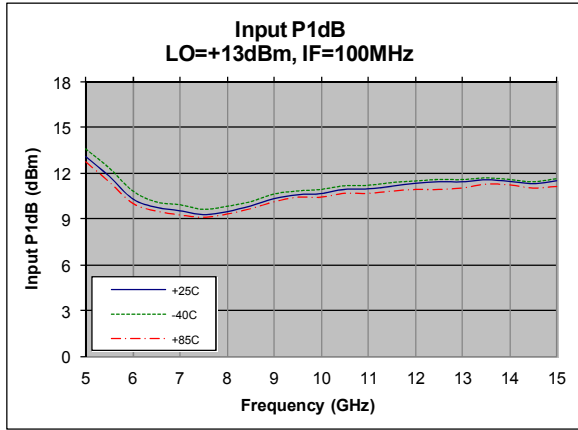
Unless otherwise noted, all measurements performed as a downconverter.

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	LO/RF IF	6 DC		14 5
Conversion Loss	LO/RF: 8-12GHz LO/RF: 6-14GHz	dB dB	6.5 7	8 10
LO-RF Isolation	LO/RF: 8-12GHz LO/RF: 6-14GHz	dB dB	37 34	43 43
LO-IF Isolation	LO/RF: 8-12GHz LO/RF: 6-14GHz	dB dB	28 28	37 37
RF-IF Isolation	LO/RF: 8-12GHz LO/RF: 6-14GHz	dB dB	15 10	22 22
RF Input P _{1dB}	LO/RF: 8-12GHz LO/RF: 6-14GHz	dBm dBm	+9.5 +9.5	
Input IP3	LO/RF: 8-12GHz LO/RF: 6-14GHz	dBm dBm	+16 +16	

Typical Performance



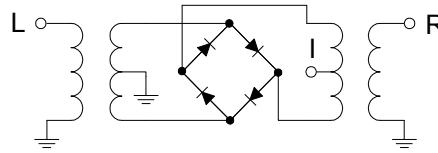
Typical Performance



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

