

DESCRIPTION

AMCOM's AM11021009XD-P4 is a passive double balanced mixer with 11 to 21GHz at RF/LO port and DC to 6GHz at IF port. The mixer operates with LO drive level range from +9dBm to +16dBm.



FEATURES

- LO/RF: 11–21GHz
- IF: DC–6GHz
- LO Level: +13dBm
- Conversion Loss: 6dB typ.
- RF Input: Up to +9dBm
- Input IP3: +16dBm
- SMA Female All Ports

APPLICATIONS

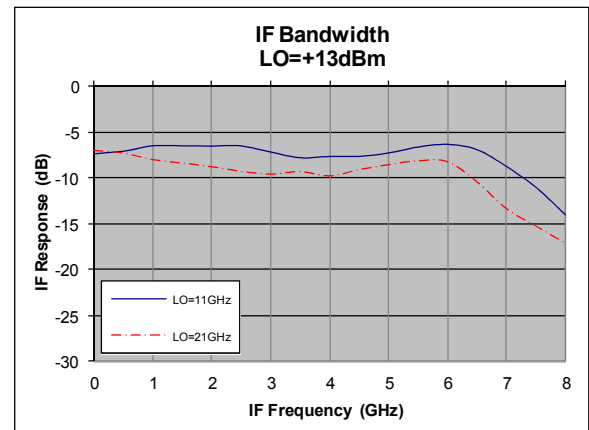
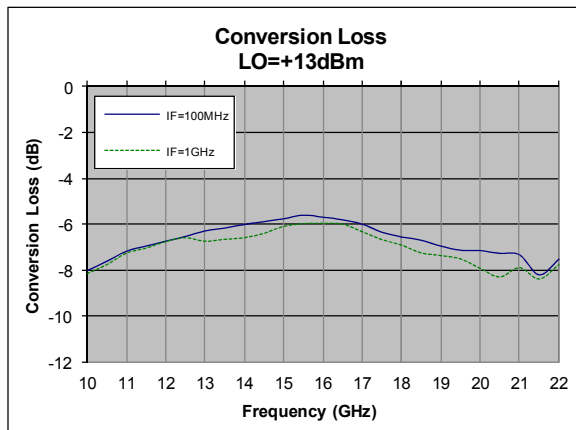
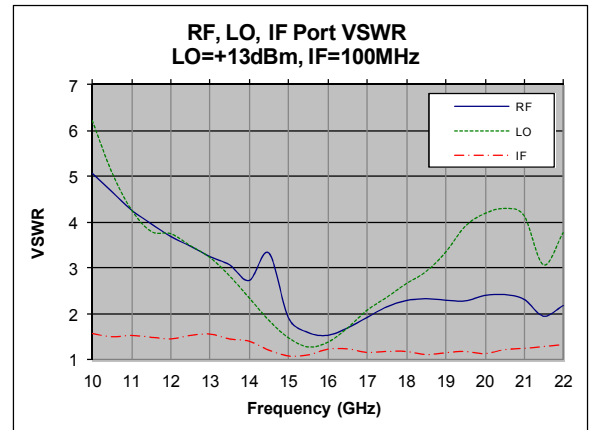
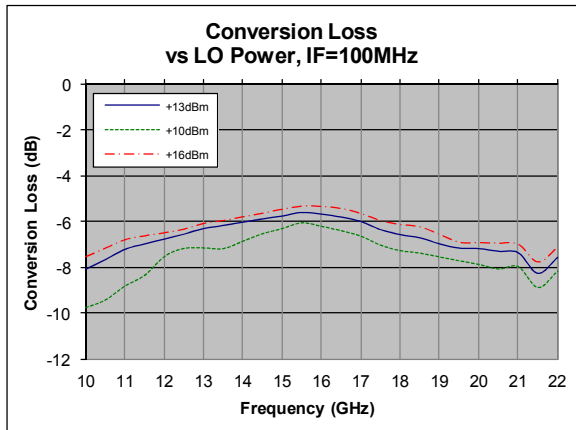
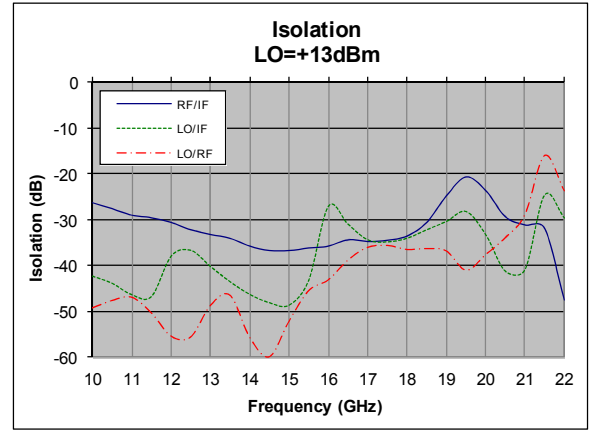
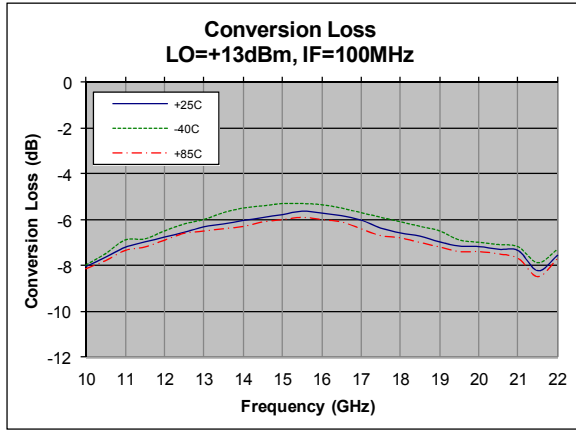
- Telecom Infrastructure
- Military & Aerospace
- VSAT
- Test & Instrumentation
- Radar
- Communication

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

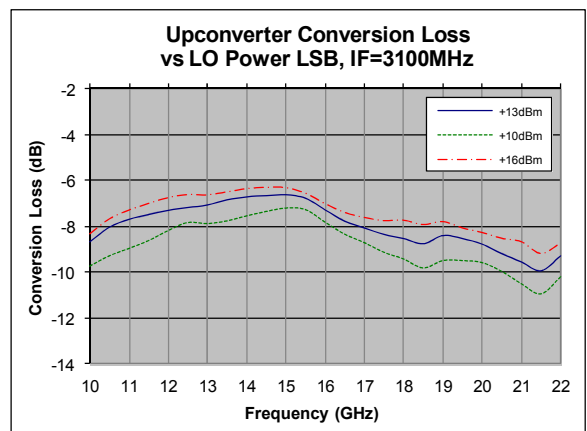
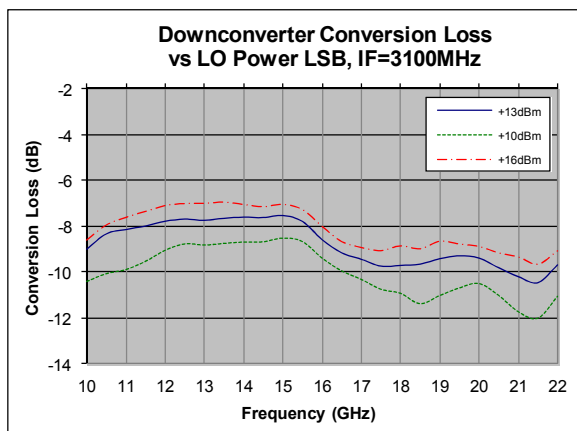
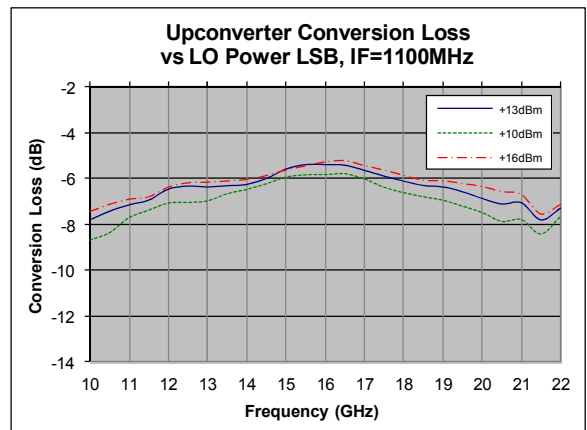
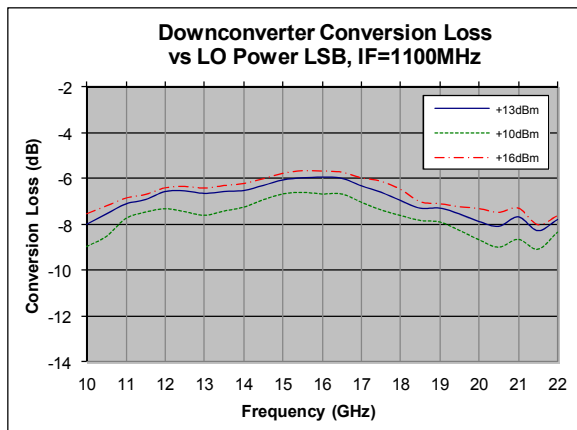
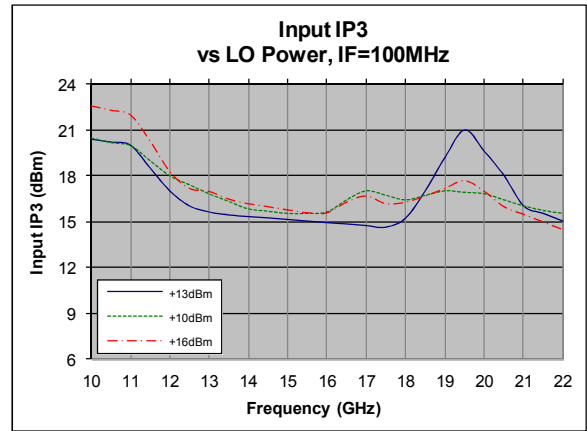
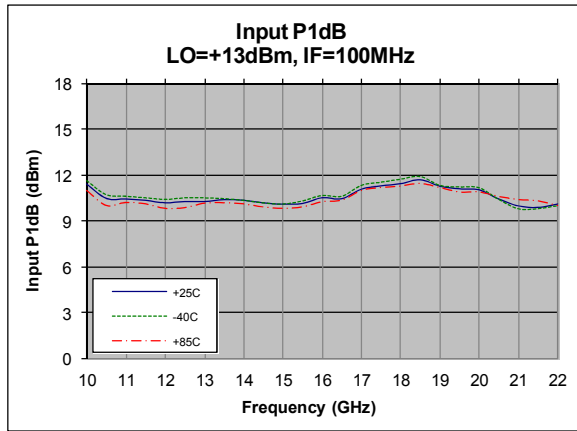
Unless otherwise noted, all measurements performed as a downconverter.

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	LO/RF IF	11 DC		21 6
Conversion Loss	LO/RF: 13-17GHz LO/RF: 11-21GHz	dB dB	6 7	8 10
LO-RF Isolation	LO/RF: 13-17GHz LO/RF: 11-21GHz	dB dB	35 30	43 43
LO-IF Isolation	LO/RF: 13-17GHz LO/RF: 11-21GHz	dB dB	24 22	38 38
RF-IF Isolation	LO/RF: 13-17GHz LO/RF: 11-21GHz	dB dB	17 15	25 25
RF Input P _{1dB}	LO/RF: 13-17GHz LO/RF: 11-21GHz	dBm dBm		+9 +9
Input IP3	LO/RF: 13-17GHz LO/RF: 11-21GHz	dBm dBm		+16 +16

Typical Performance



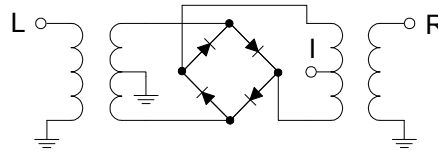
Typical Performance



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

