



DESCRIPTION

AMCOM's AM05514011XD-P4 is a passive double balanced mixer with 5.5 to 14GHz at RF/LO port and DC to 6GHz at IF port. The mixer operates with LO drive level +15dBm.



FEATURES

- LO/RF: 5.5–14GHz
- IF: DC–6GHz
- LO Level: +15dBm
- Conversion Loss: 7dB typ.
- RF Input: Up to +13dBm
- Input IP3: +24dBm
- SMA Female All Ports

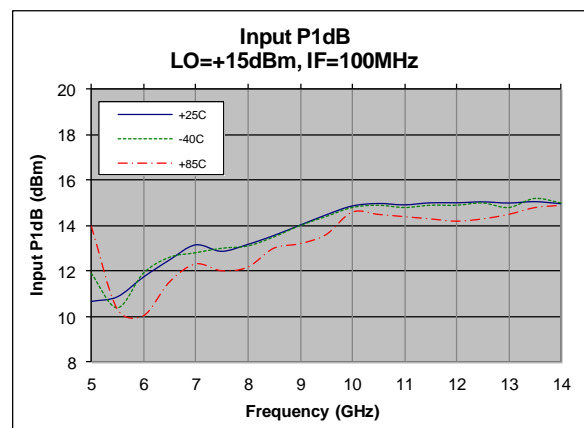
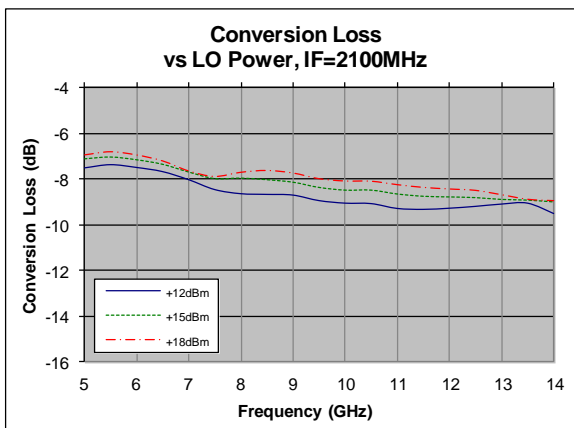
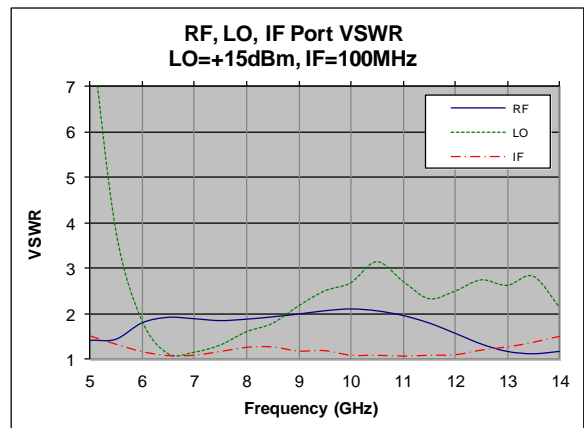
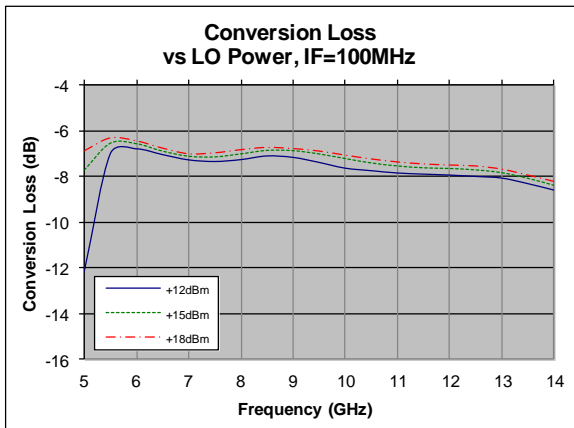
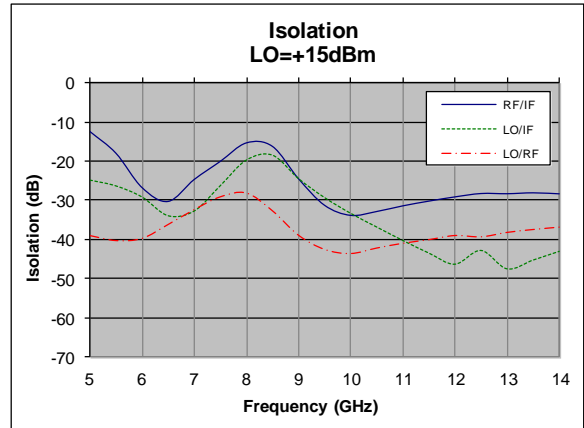
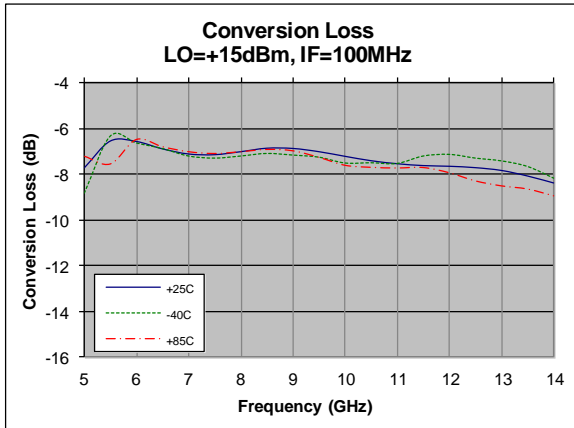
APPLICATIONS

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

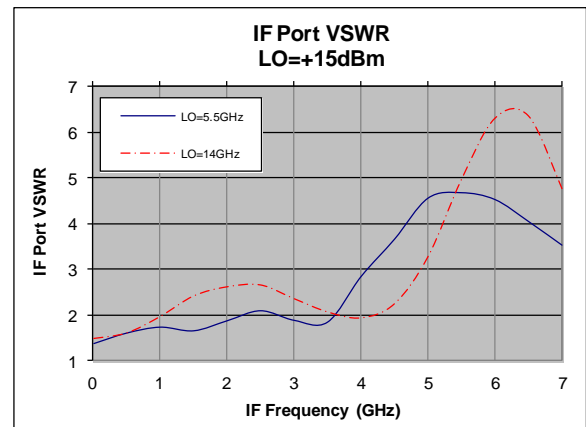
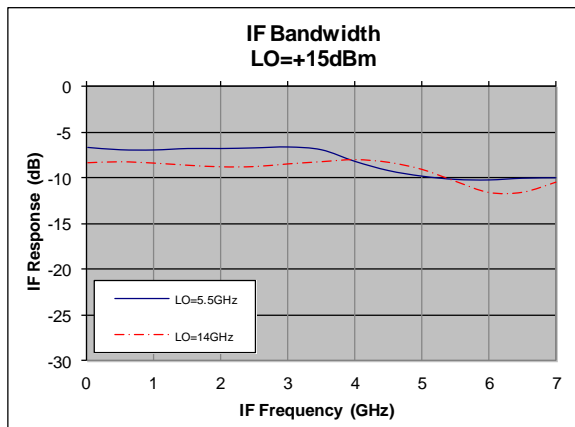
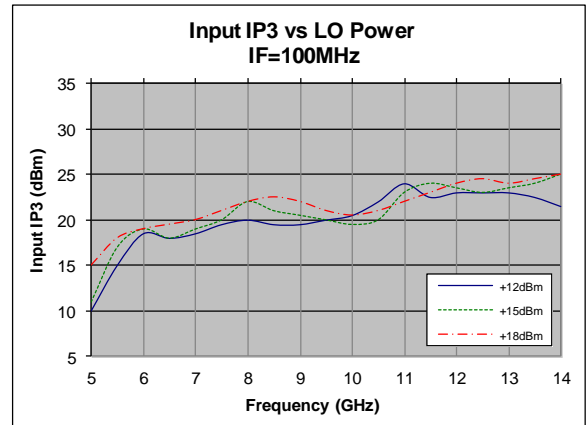
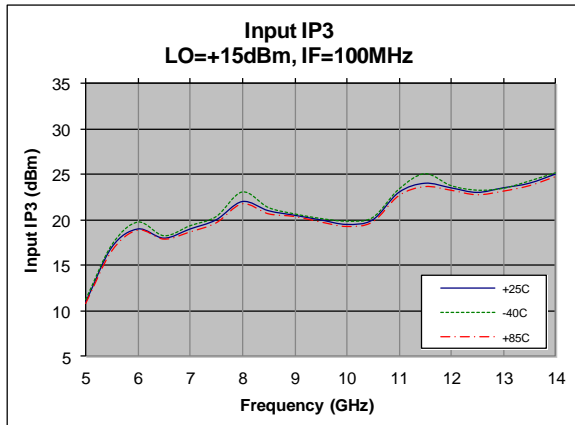
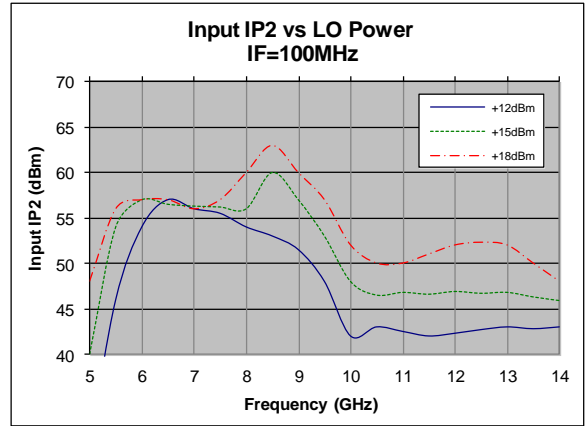
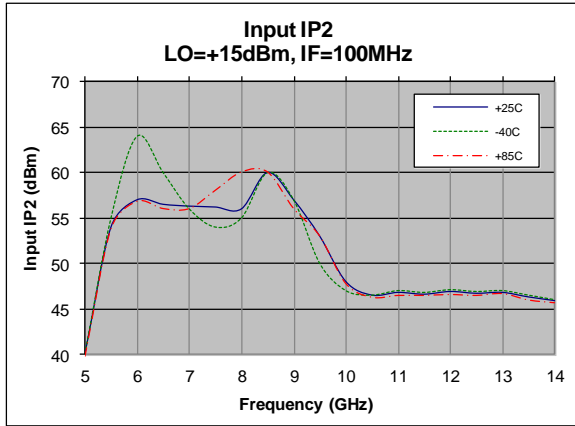
Electrical Specifications @ +25 °C, IF=100MHz, LO=+15dBm, 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	LO/RF IF	GHz GHz	5.5 DC	14 6
Conversion Loss	LO/RF: 5.5-10GHz LO/RF: 10-14GHz	dB dB	7 8.5	9.5 10
LO-RF Isolation	LO/RF: 5.5-10GHz LO/RF: 10-14GHz	dB dB	35 30	45 36
LO-IF Isolation	LO/RF: 5.5-10GHz LO/RF: 10-14GHz	dB dB	20 20	25 25
RF-IF Isolation	LO/RF: 5.5-10GHz LO/RF: 10-14GHz	dB dB	8 10	14 16
RF Input P _{1dB}	LO/RF: 5.5-10GHz LO/RF: 10-14GHz	dBm dBm	+11 +13	
Input IP3	LO/RF: 5.5-10GHz LO/RF: 10-14GHz	dBm dBm	+20 +24	
Input IP2	LO/RF: 5.5-10GHz LO/RF: 10-14GHz	dBm dBm	+54 +46	

Typical Performance



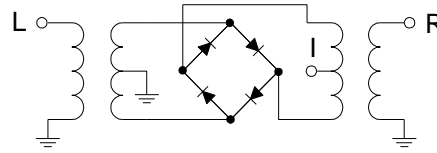
Typical Performance



Absolute Maximum Ratings

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

Schematic



Outline

