

## DESCRIPTION

AMCOM's AM07034012XD-P4 is a passive double balanced mixer with 7 to 34GHz at RF/LO port and DC to 8GHz at IF port.



## FEATURES

- LO/RF: 7–34GHz
- IF: DC–8GHz
- LO Level: +15dBm
- Conversion Loss: 12dB typ.
- RF Input: Up to +13dBm
- Input IP3: +22dBm
- K-2.92mm Female RF/LO Ports
- SMA Female IF Port

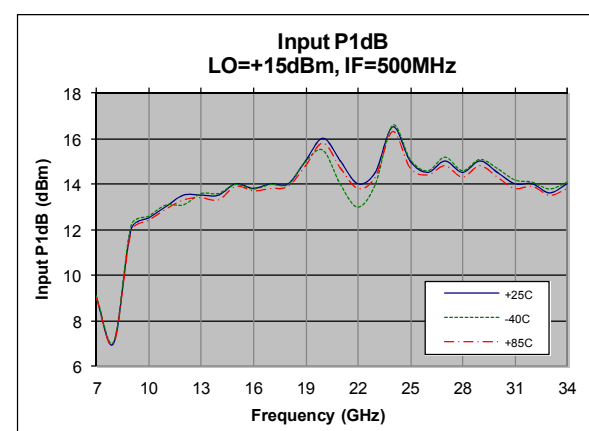
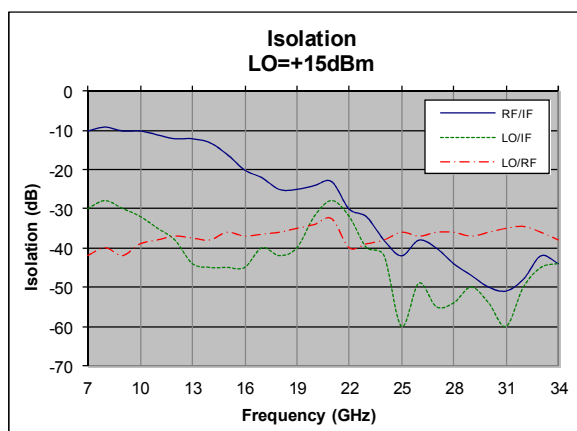
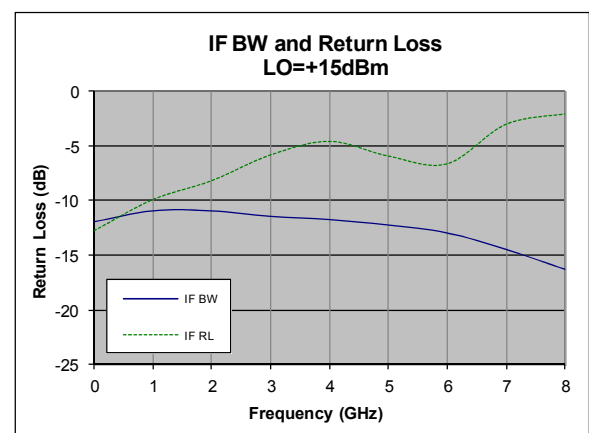
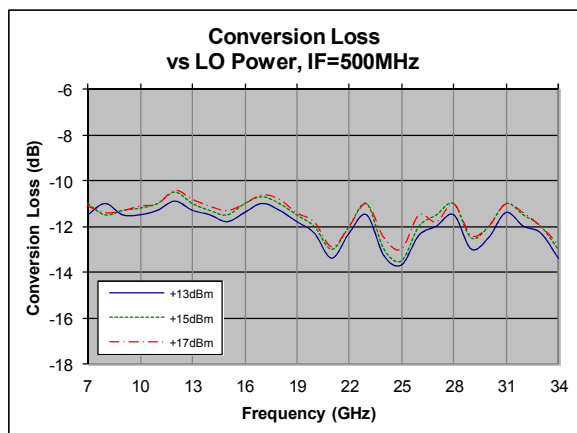
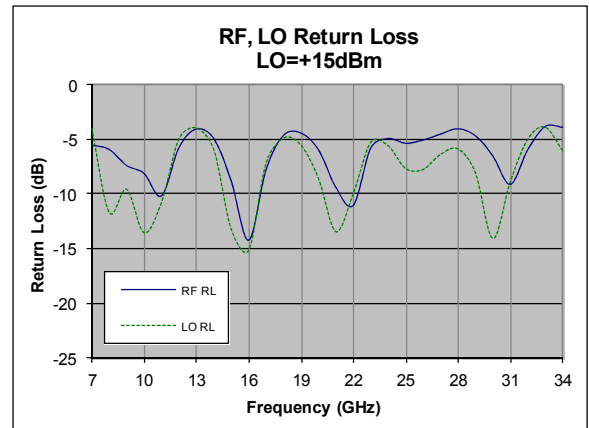
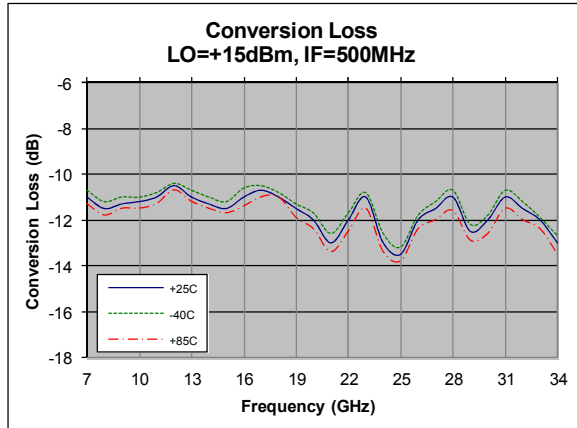
## APPLICATIONS

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

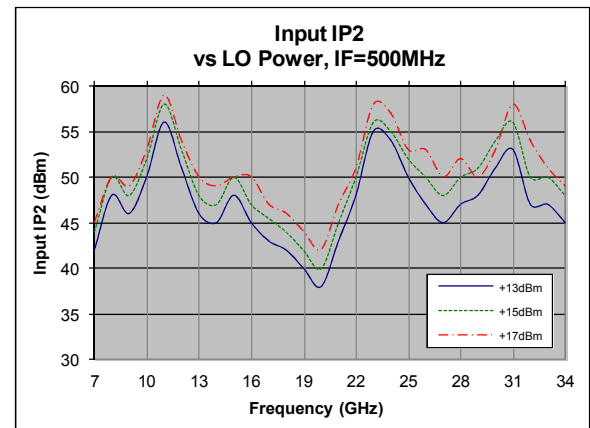
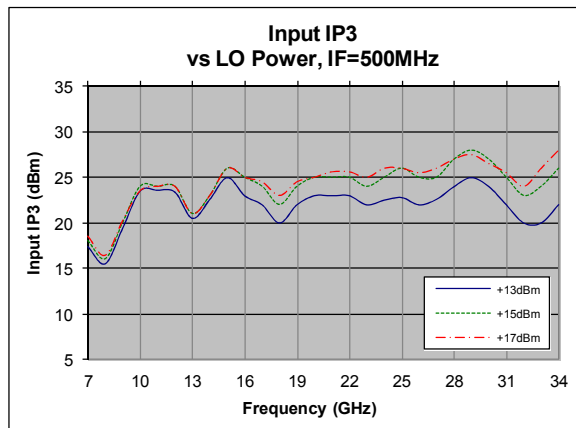
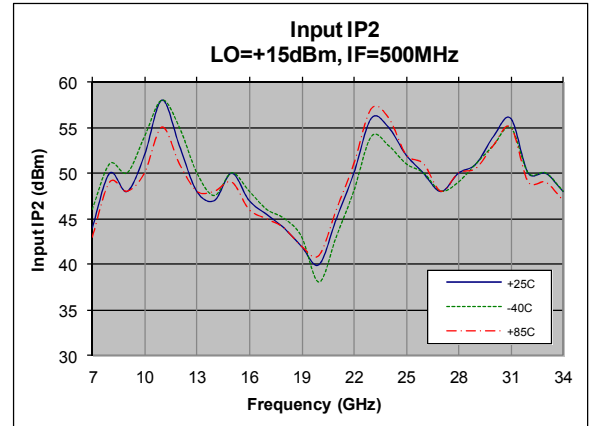
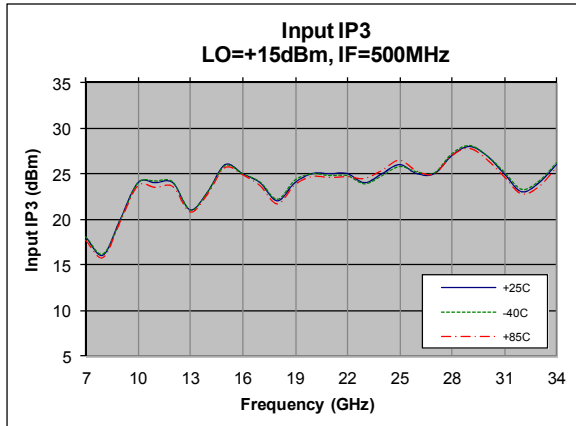
## Electrical Specifications @ +25 °C, IF=100MHz, LO=+15dBm, 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	LO/RF	GHz	7	34
	IF	GHz	DC	8
LO Power Level		dBm	+13	+17
Conversion Loss	LO/RF: 7-20GHz	dB	11	14
	LO/RF: 20-34GHz	dB	12	15
LO-RF Isolation	LO/RF: 7-20GHz	dB	35	
	LO/RF: 20-34GHz	dB	35	
LO-IF Isolation	LO/RF: 7-20GHz	dB	20	30
	LO/RF: 20-34GHz	dB	25	40
RF-IF Isolation	LO/RF: 7-20GHz	dB	7	10
	LO/RF: 20-34GHz	dB	13	20
RF Input P <sub>1dB</sub>	LO/RF: 7-20GHz	dBm	+12	
	LO/RF: 20-34GHz	dBm	+13	
Input IP3	LO/RF: 7-20GHz	dBm	+20	
	LO/RF: 20-34GHz	dBm	+22	

Typical Performance



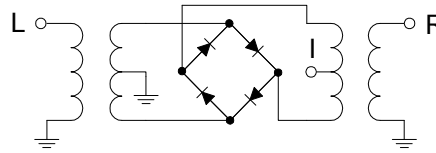
Typical Performance



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	+21dBm
LO Driver	+27dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

### Schematic



### Outline

