

DESCRIPTION

AMCOM's AM09015010XD-P3 is a high IP3 passive double balanced mixer operates with LO drive level range of +9dBm to +12dBm.



FEATURES

- LO/RF: 9.0 – 15.0GHz
- IF: DC – 2.5GHz
- LO Level: +13dBm
- Conversion Loss: 8.0dB
- RF Input: Up to +9.5dBm
- IP3: +17dBm
- SMA Connector

APPLICATIONS

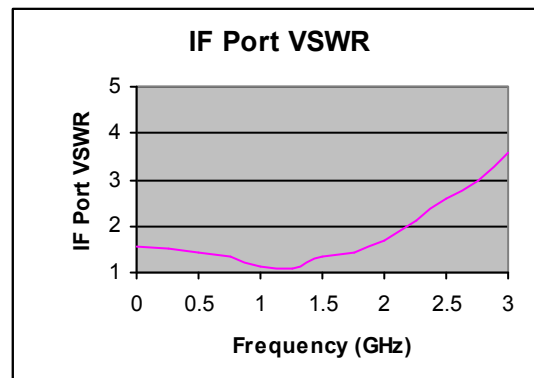
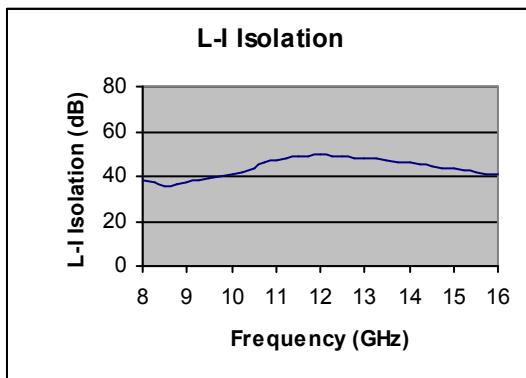
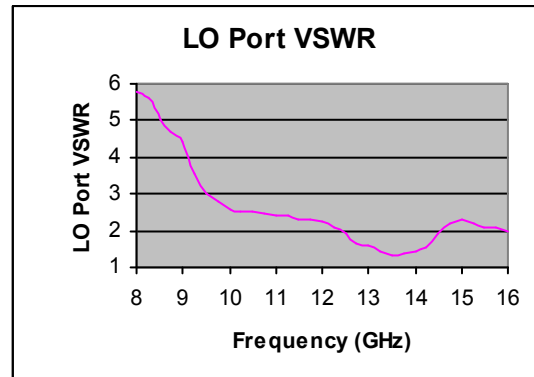
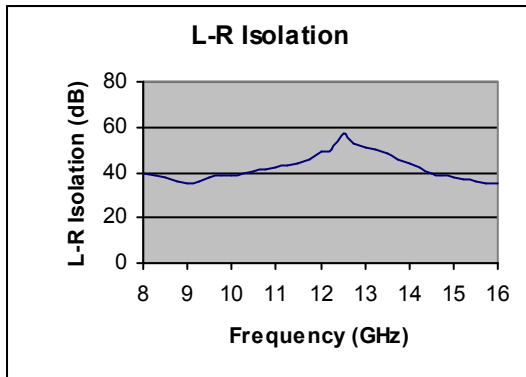
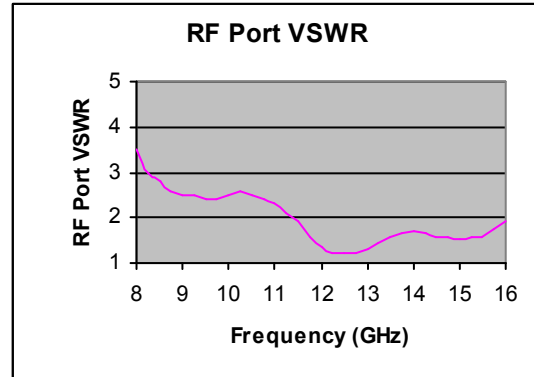
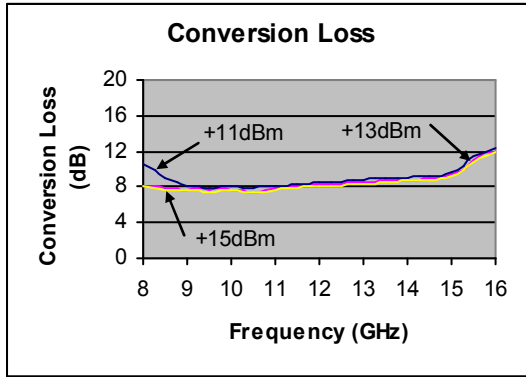
- Telecom Infrastructure
- Military & Aerospace
- VSAT
- Test & Instrumentation
- Radar
- Communication

Electrical Specifications @ +25°C, LO=+13dBm

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range				
LO/RF	GHz	9.0		15.0
IF	GHz	DC		2.5
Conversion Loss	dB		8.0	11
LO-RF Isolation				
9.0 – 15.0 GHz	dB	30	40	
LO-IF Isolation				
9.0 – 15.0GHz	dB	33	40	
RF Input Power up to	dBm	+7	+9.5	
IP3 (Center Band)	dBm	+14	+17	

Typical Performance @ +25°C

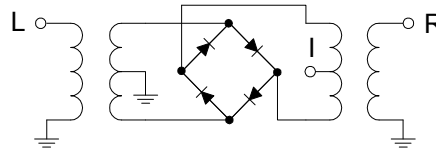
LO = +13dBm



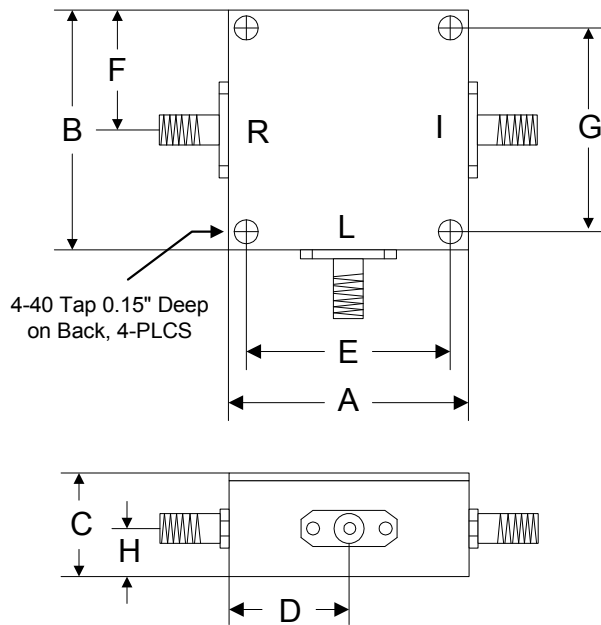
Absolute Maximum Ratings

Parameter	Absolute Maximum
RF/IF Power	+27dBm
LO Power	+27dBm
IF DC Current	± 4mA
Operating Temperature	-55 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

Schematic



Outline



	A	B	C	D	E	F	G	H
Inch	1.250	1.250	0.563	0.625	1.000	0.625	1.000	0.250
mm	31.75	31.75	14.29	15.88	25.40	15.88	25.40	6.35