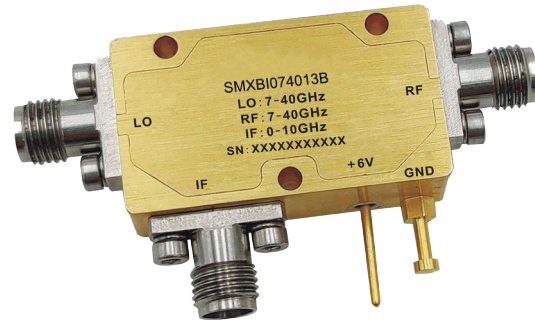


Features

- Ultra Wide Band Mixer
- High Dynamic Range



Typical Applications

- Wireless Infrastructure
- 5G communication
- Test and measurement Instrument

RF Microwave & VSAT
Fiber Optics

Parameters	Min	Typ.	Max	Units
RF Input Frequency	7		40	GHz
LO Input Frequency	7		40	GHz
IF Output Frequency	DC		10	GHz
LO Power		13		dBm
Conversion Loss		5		dB
Input 1dB Compression (P1dB)		-6		dBm
Input Third Order Intercept (IIP3)		4		dBm
Isolation		-60		dB
Voltage		6		V
Current		300		mA
Weight		1.27 Max.		ounces
Impedance		50		Ω
RF / LO & IF Connectors	2.92mm-Female / SMA-Female			
Frequency Relationship	RF=IF+LO			
Finish	Gold Plated			
Material	Aluminum			
Package	Epoxy Sealed (Standard)			
	Hermetically Sealed (Optional)			

Ultra Wide Band Mixer (Down-Converting) 7GHz - 40GHz

Absolute Maximum Ratings

Parameter	Rating
Biasing	+7V

Ordering Information

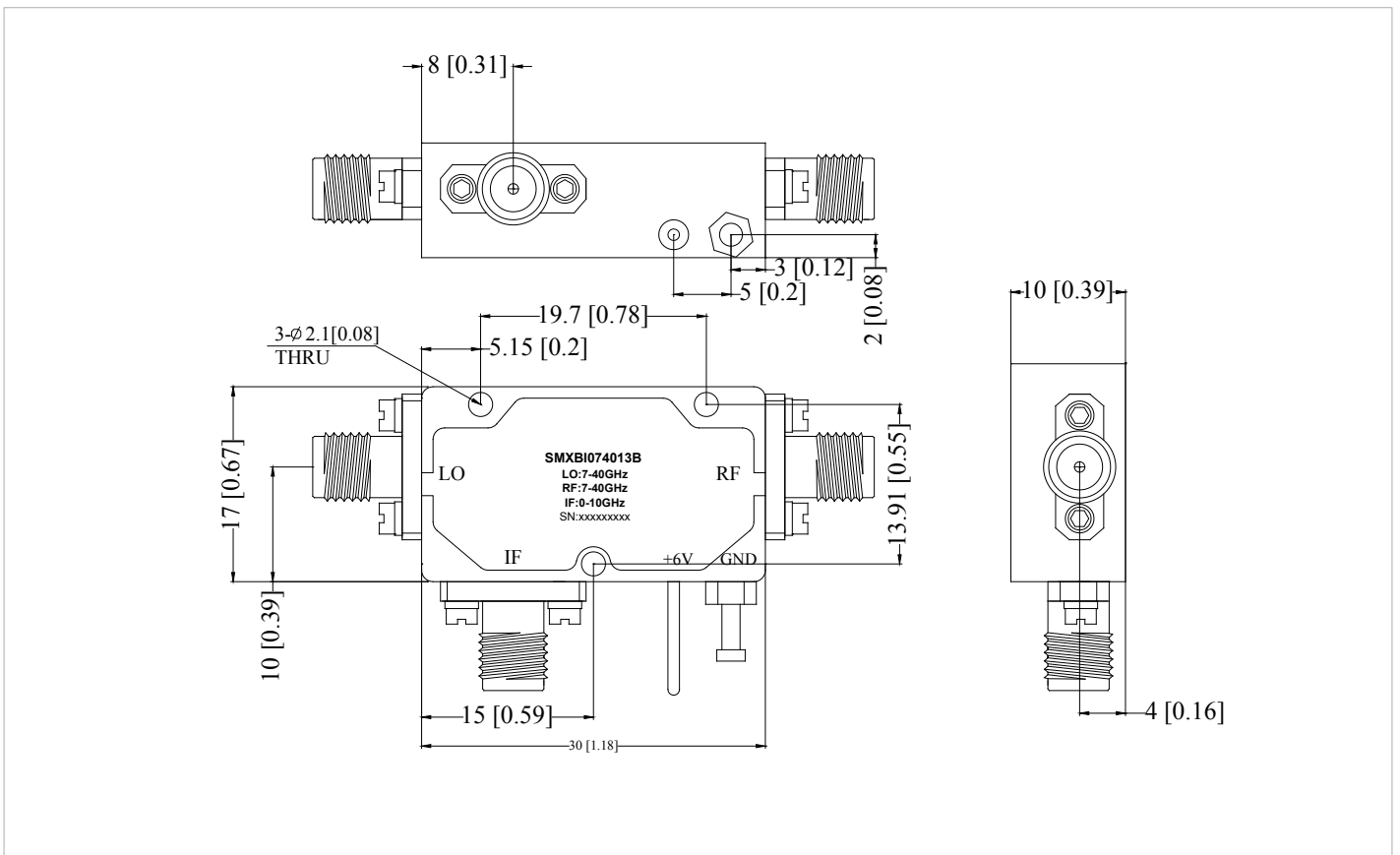
Part No.	Description
SMXBI074013B	7GHz-40GHz Ultra Wide Band Mixer(Down-Converting)

Environmental Specifications

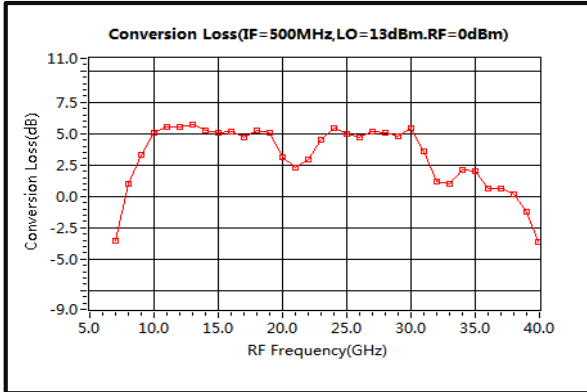
Operational Temperature	-40°C~+85°C(Case Temperature)
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave,3 axis both directions

Outline Drawing:

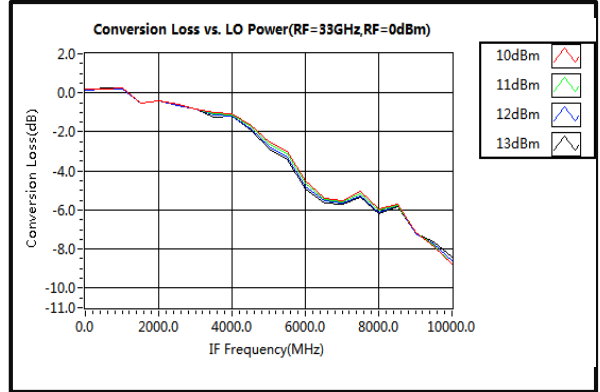
All Dimensions in mm (inches)
Housing Tolerances ± 0.1 (0.004)



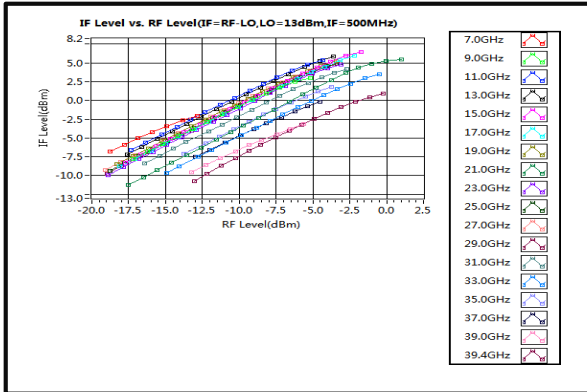
Conversion Loss



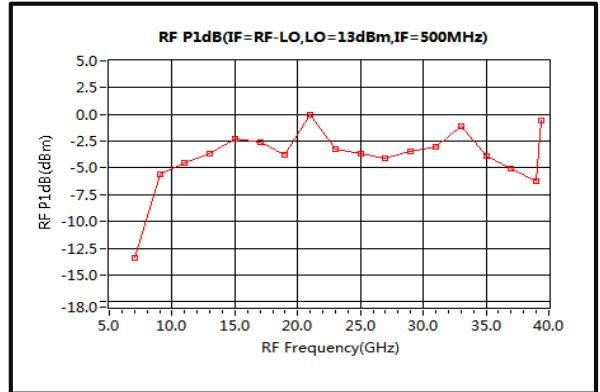
Conversion Loss vs. LO Power



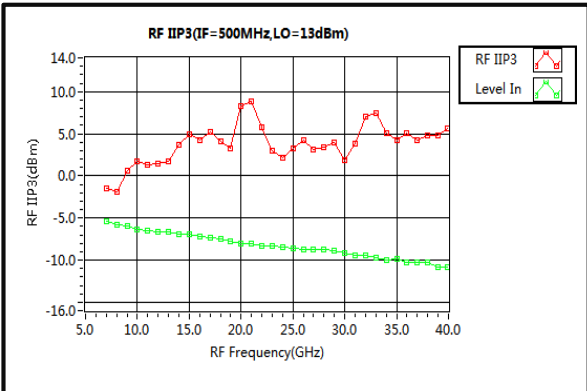
IF Level vs. RF Level(IF=RF-LO)



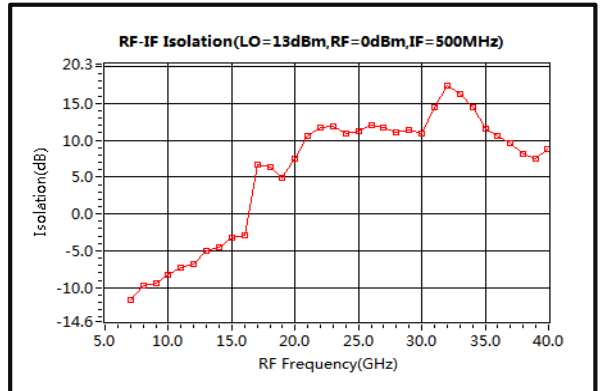
RF P1dB (IF=RF-LO)

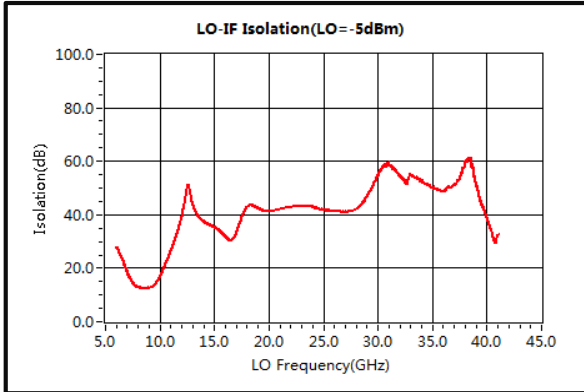
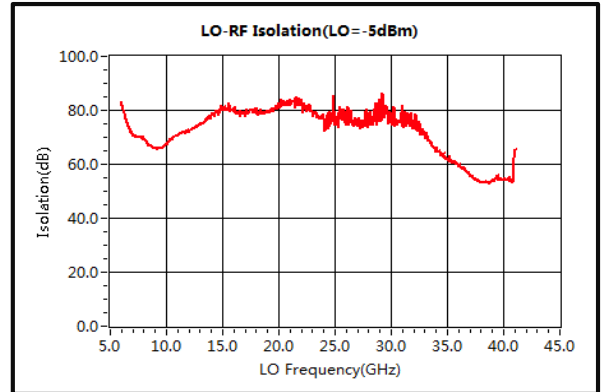


RF IIP3



RF to IF Isolation



LO to IF Isolation**LO to RF Isolation**

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