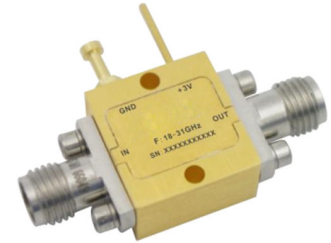




Low Noise Amplifier 18GHz~33GHz

Features

- Gain: 12dB Typical
- Noise Figure: 3.0dB Typical
- P1dB Output Power: +10dBm Typical
- Supply Voltage: +3V @ 65mA
- 50 Ohm Matched



Typical Applications

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

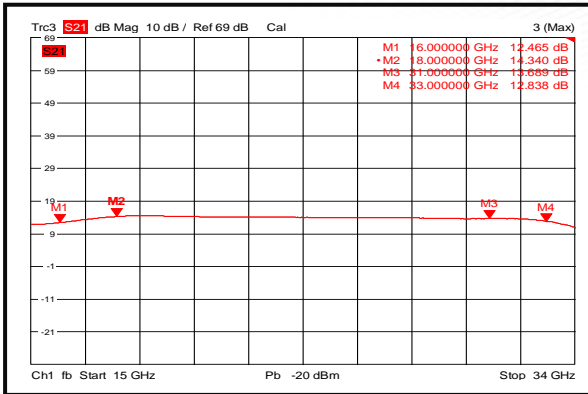
RF Microwave & VSAT
Fiber Optics

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	16~18			18~31			31~33			GHz
Gain		10		10.5	12			10.5		dB
Gain Flatness		±0.5			±0.5			±0.5		dB
Gain Variation Over Temperature (-40°C~+85°C)		±1.0			±1.0			±1.0		dB
Noise Figure		2.8			2.8	4.5		4.5		dB
Input VSWR		4			1.8			3.5		: 1
Output VSWR		3			1.6			2.0		: 1
Output 1dB Compression Point (P1dB)		10		8	12	14		11		dBm
Saturated Output Power (Psat)		11			12			12		dBm
Output Third Order Intercept (OIP3)		21			19			21		dBm
Isolation S12		-45			-37			-36		dB
Supply Current (Vcc=+3V)		65	85		65	85		65	85	mA

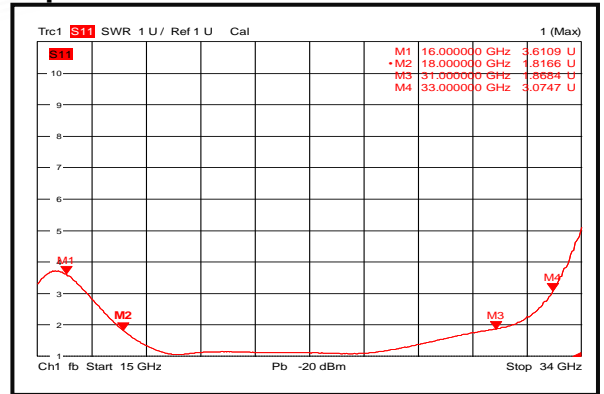
Weight	0.71 ounces	Impedance	50ohms
Input / Output Connectors	2.92mm-Female	Material	Aluminum
Finish	Gold Plated	Package Sealing	Epoxy Sealed (Standard)
			Hermetically Sealed (Option with extra charge)



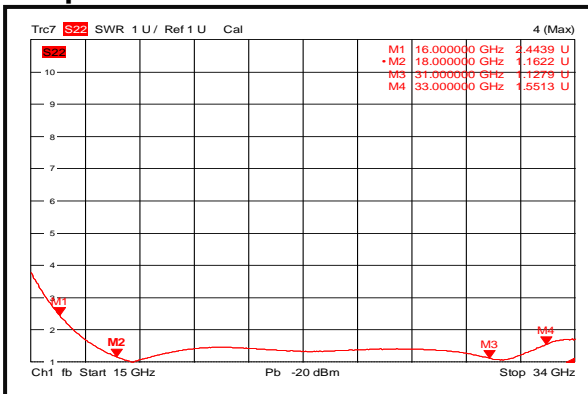
Gain @+25°C



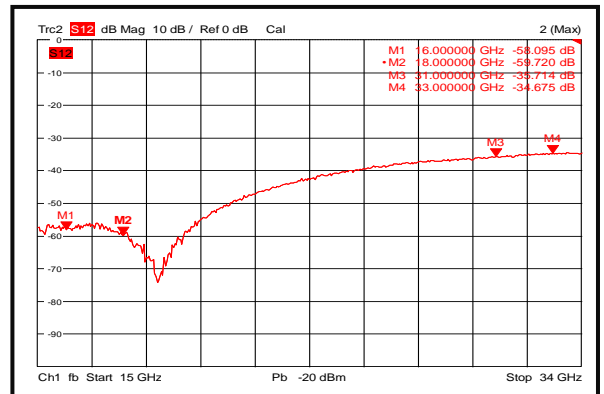
Input VSWR @+25°C



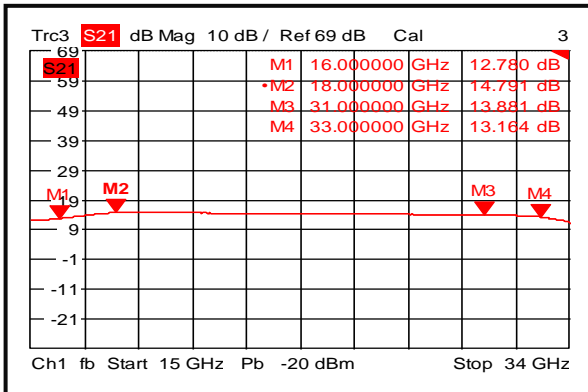
Output VSWR @+25°C



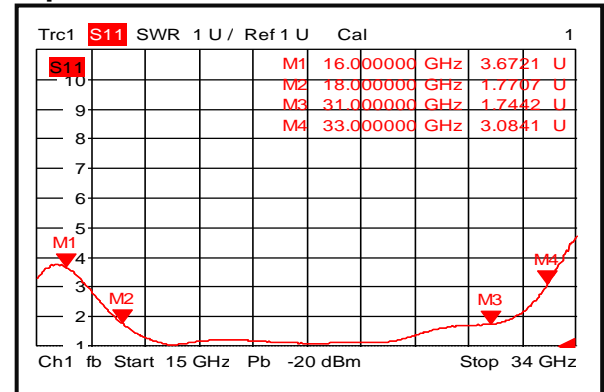
Isolation @+25°C



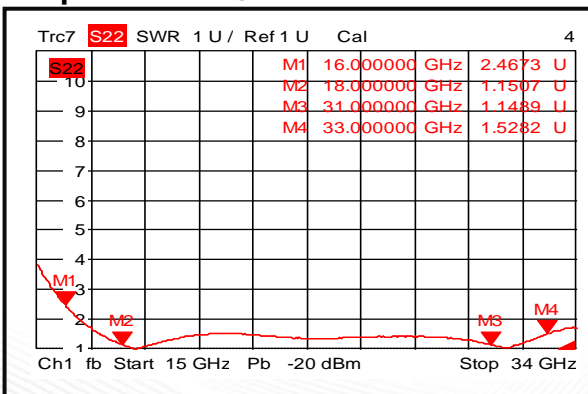
Gain @-40°C



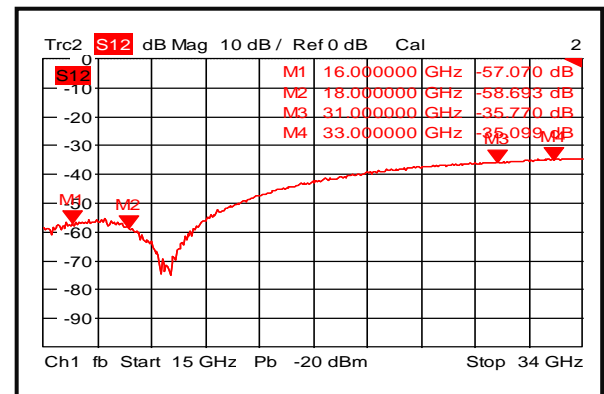
Input VSWR @-40°C



Output VSWR @-40°C

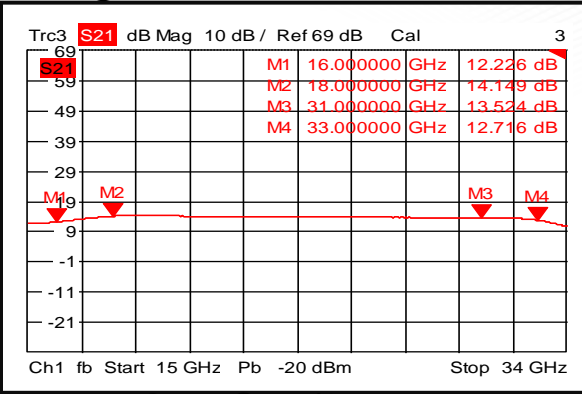


Isolation @-40°C

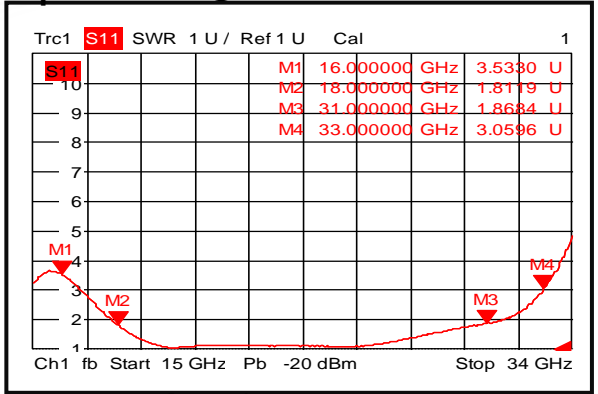




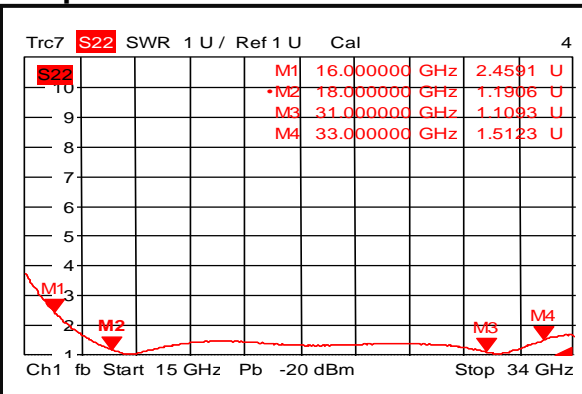
Gain @+85°C



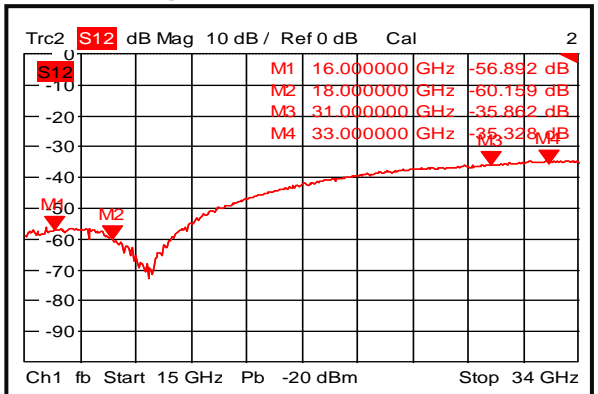
Input VSWR @+85°C



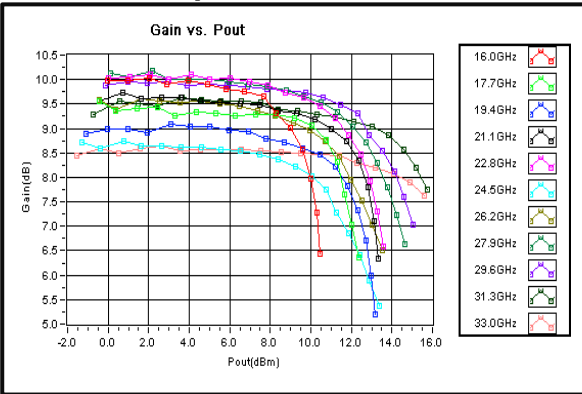
Output VSWR @+85°C



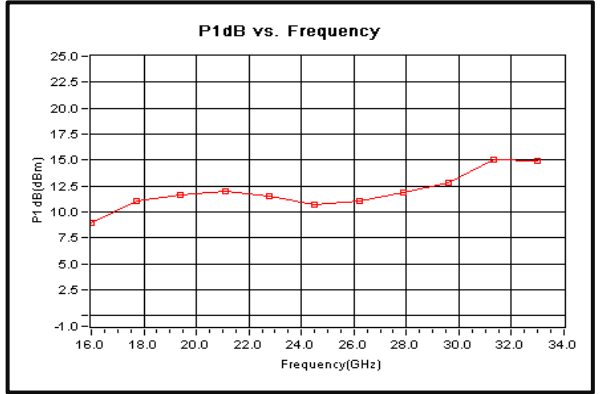
Isolation @+85°C



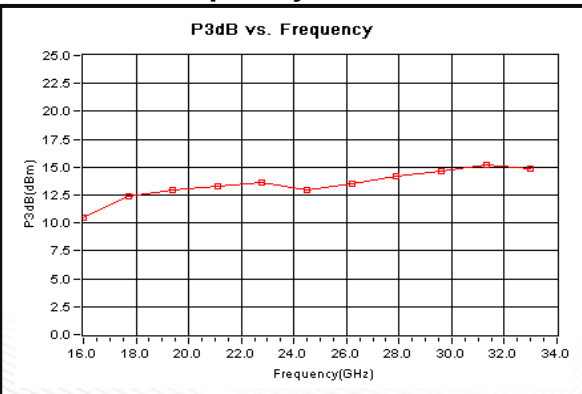
Gain vs. Output Power



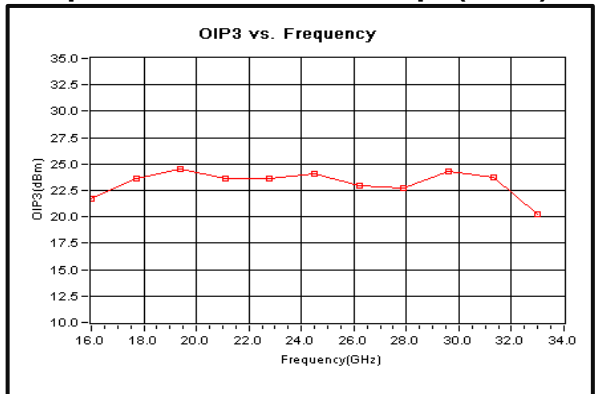
P1dB vs. Frequency



P3dB vs. Frequency

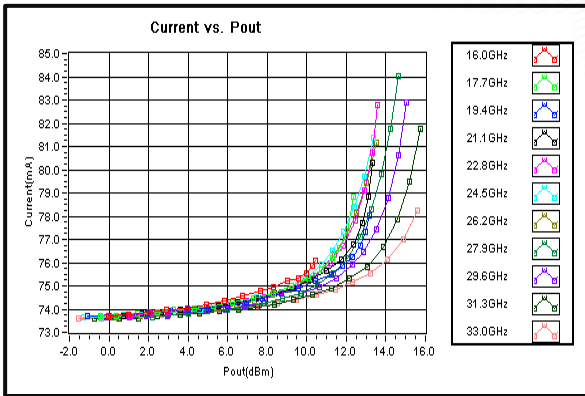


Output Third Order Intercept (OIP3)

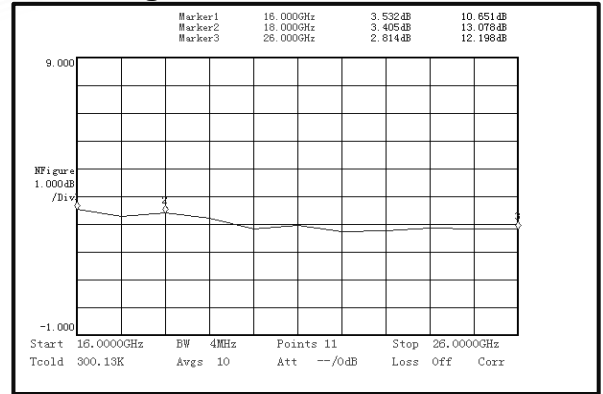




Current



Noise Figure



2nd Harmonic Wave Output Power

