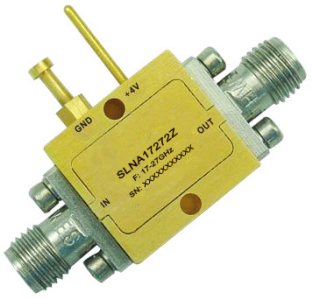
SALUKI TECHNOLOGY

P/N:SLNA17272Z

Low Noise Amplifier 17GHz-27GHz

Features

- Gain: 25dB Typical
- Noise Figure: 2.5dB Typical
- P1dB Output Power: +12dBm Typical
- Supply Voltage: +4V @ 75mA
- 50 Ohm Matched



RoHS COMPLIANT

ESD

Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Fiber Optics

RF Microwave & VSAT
Test Instrument

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		17 - 20			20 - 27		GHz
Gain	20	24		22	25		dB
Gain Flatness		±1.5			±1.0		dB
Gain Variation Over Temperature (-45ºC~+85ºC)		±1.0			±1.0		dB
Noise Figure		2.5	3.0		2.8	3.3	dB
Input VSWR		1.3	1.8		1.6	2.0	: 1
Output VSWR		1.6	2.0		1.8	2.5	: 1
Output 1dB Compression Point (P1dB)	9	11		10	12		dBm
Saturated Output Power (Psat)		13			14		dBm
Output Third Order Intercept (IP3)		18			20		dBm
Supply Current (Idd) (Vcc=+4V)		75	100		75	100	mA
Isolation S12		-40			-35		dB

Weight	0.35 ounces	Impedance	50ohms
Input / Output Connectors	2.92mm-Female	Material	Aluminum
Finish	Standard: Gold 40 micron; Nickel 220 micron thickness	Package Sealing	Epoxy Sealing (Standard)
	Option: Gold 80 micron; Nickel 180 micron thickness		Hermetically Sealed (Option with extra charge)

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Absolute Maximum Ratings

Operating Voltage	+5.5V
RF Input Power (RFIN)	-5dBm

Biasing Up Procedure

Step 1	Connect Ground Pin
Step 2	Connect input and output
Step 3	Connect +4V biasing

Power OFF Procedure

Step 1	Turn off +4V biasing
Step 2	Remove RF connection
Step 3	Remove Ground

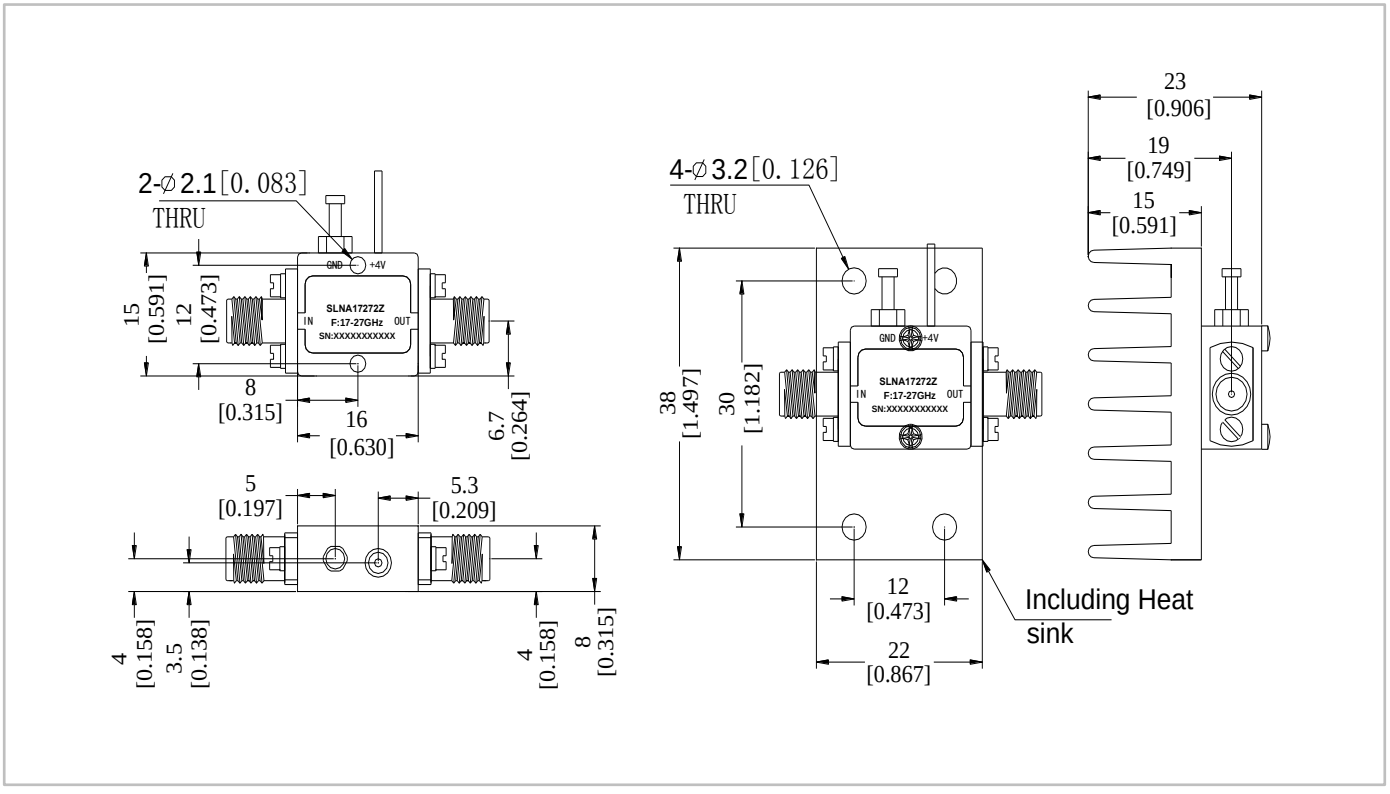
Environmental Specifications

Operational Temperature	-45ºC to +85ºC
Storage Temperature	-55ºC to +125ºC
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 35c, 95%RH at 40ºc
Shock	20G for 11msec half sine wave,3 axis both directions

Outline Drawing:

All Dimensions in mm (inches)

Heat Sink required during operation(Sold Seperately)



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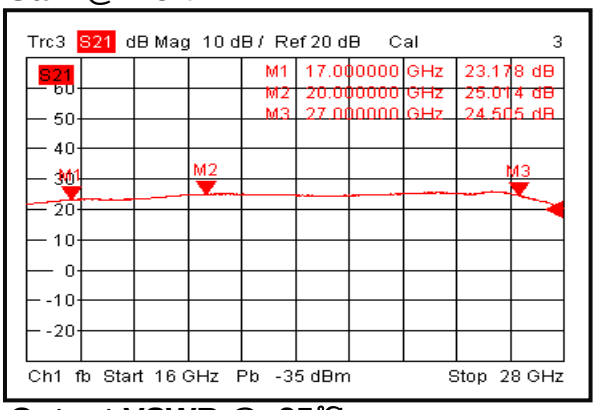
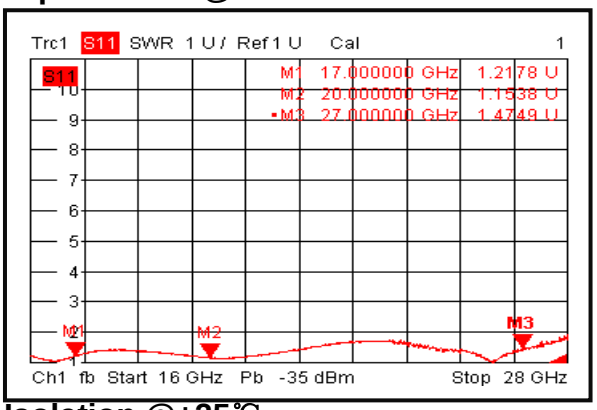
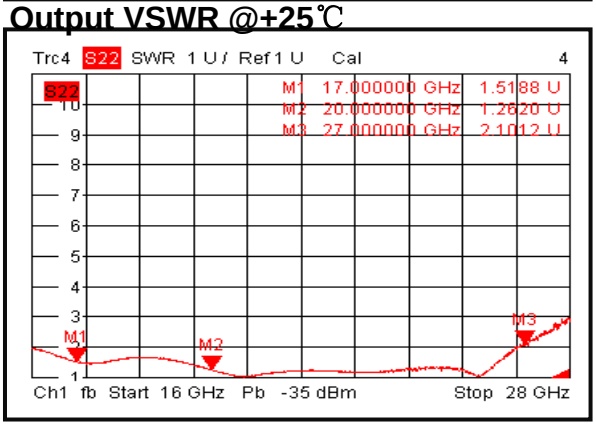
Gain @+25℃



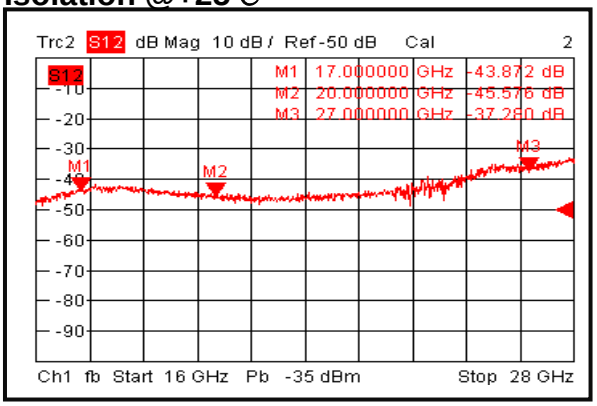
Input VSWR @+25℃



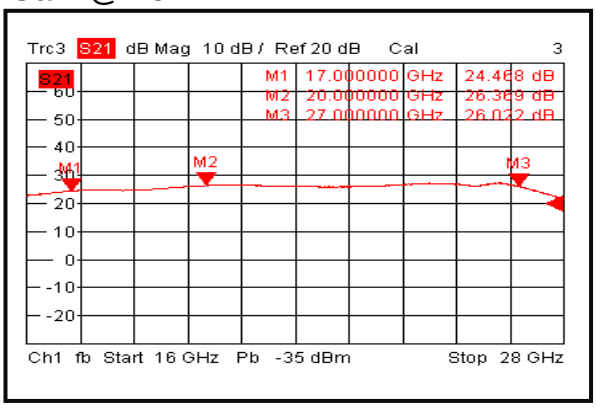
Output VSWR @+25℃



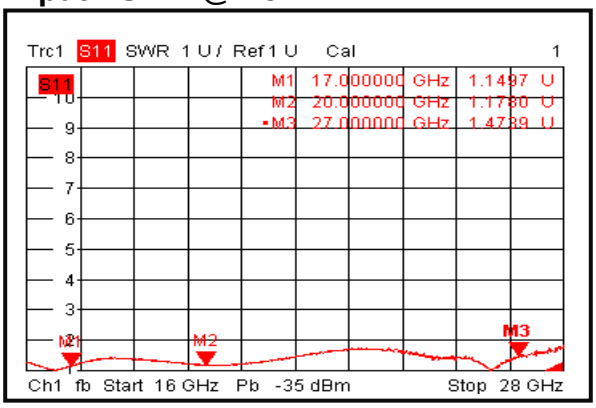
Isolation @+25℃



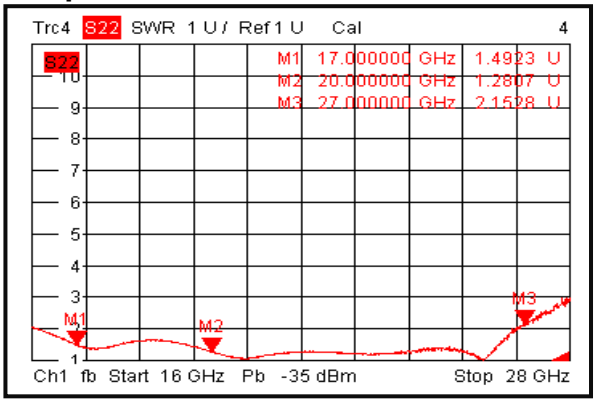
Gain @-45℃



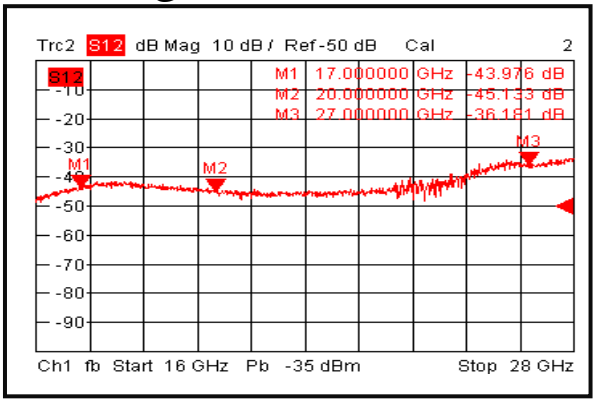
Input VSWR @-45℃



Output VSWR @-45℃



Isolation @-45℃



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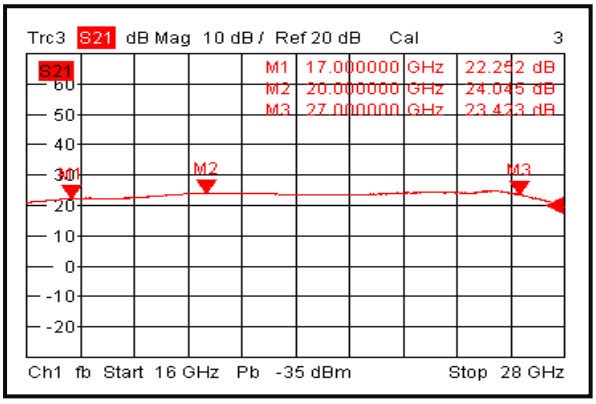
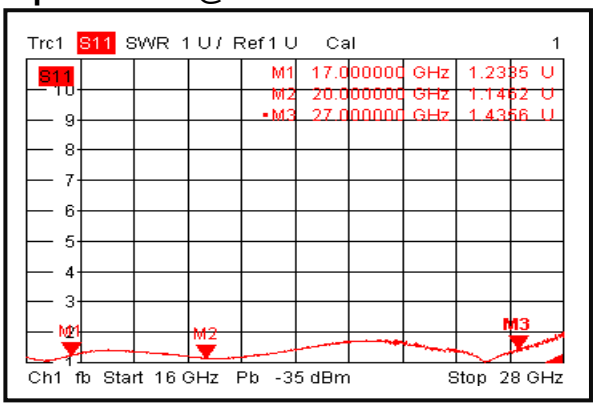
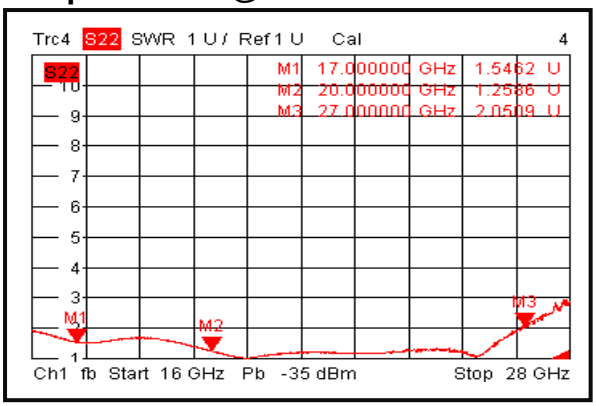
Gain @+85℃



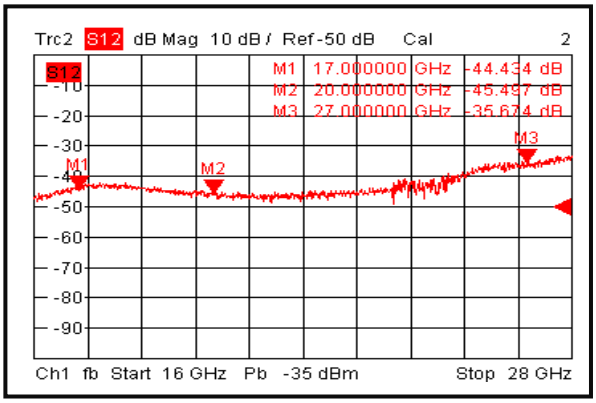
Input VSWR @+85℃



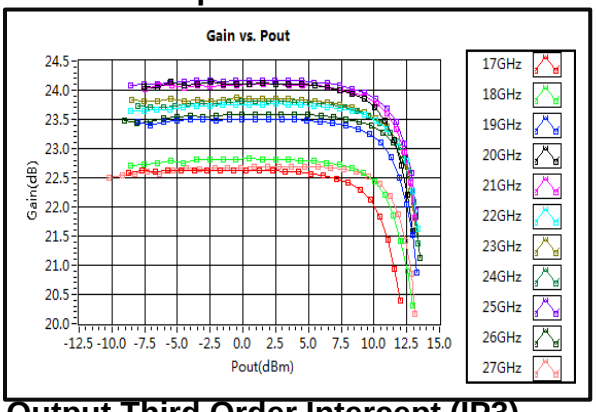
Output VSWR @+85℃



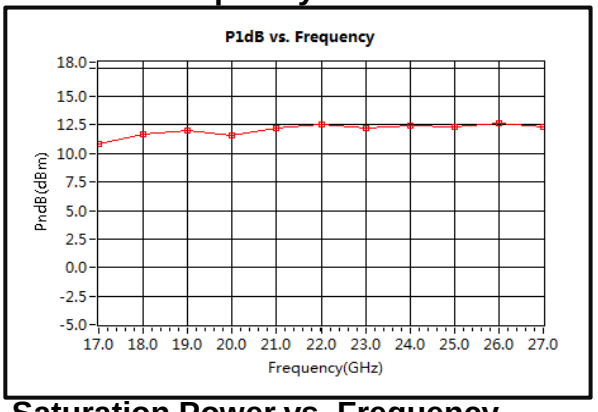
Isolation @+85℃



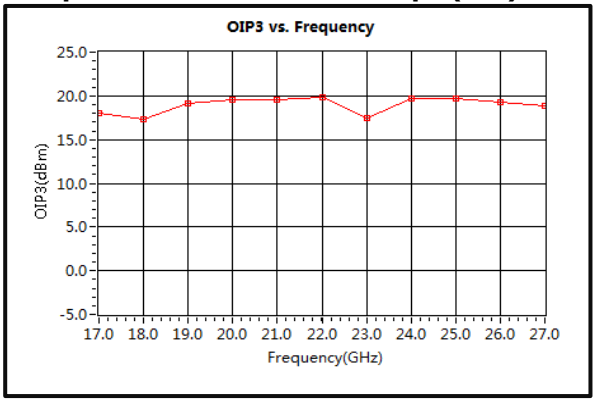
Gain vs. Output Power



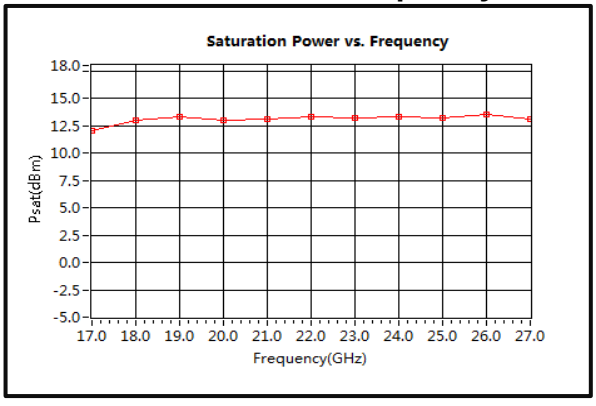
P1dB vs. Frequency



Output Third Order Intercept (IP3)



Saturation Power vs. Frequency



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Noise Figure

2nd Harmonic Wave Output Power