

Introducing our new line of COAXIAL IN-LINE LOW NOISE AMPLIFIERS Featuring AmpliTech's MMIC Technology



Actual Sizes

Key Parameters at 23°C

Parameters	Unit	Min	Typical	Max	Notes
Frequency	GHz	2.0	-	4.0	
Gain	dB	31	33	-	
Gain Flatness	dB	-	-	±1.0	
Noise Figure	dB	-	0.8	0.9	
In/Out VSWR	-	-	-	2.0:1	
P@1dB	dBm	+14	+15	-	
DC Power / BTO	V@mA	+12	+15	+24	@ 53 mA Nom
Outline/Package	-	-	-	-	1001-1
Connectors (In/Out)	SMA Male/SMA Female				

Absolute Maximum Ratings*

Parameters	Unit	Min	Max	Notes
Operating Temperature (Case)	°C	-55	+85	95% humidity, non-condensing
Non-Operating Temperature (Case)	°C	-65	+95	95% humidity, non-condensing
RF Input Power	dBm	-	+13	CW
Die Junction Temp (Tj)	°C	-	+150	For GaAs devices
Positive Supply Voltage	V	-	+24	At +V DC terminal
Negative Voltage	V	-	-10	Reverse Voltage

**Stresses above those listed under "Absolute Maximum Rating" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability. All STANDARD units are packaged in Aluminum housings that are layered with electroless Nickel and then plated with Gold to eliminate contamination of other adjacent electronic components.*

Product Features

- High Performance-High Reliability MMIC-based design
- Competitively Priced
- In-Line Package
- BTO: DC Bias through RF output
- Frequency Range: 2.0 to 4.0 GHz
- Noise Figure: 0.8 dB
- Gain: 31 dB Min
- Output Power (P@1dB): +14 dBm Min
- Low Current: 53 mA
- State-of-the-Art PHEMT MMIC Technology
- MIL-883, MIL-45208 construction and reliability
- S-Band to Ka-Band Frequencies Available

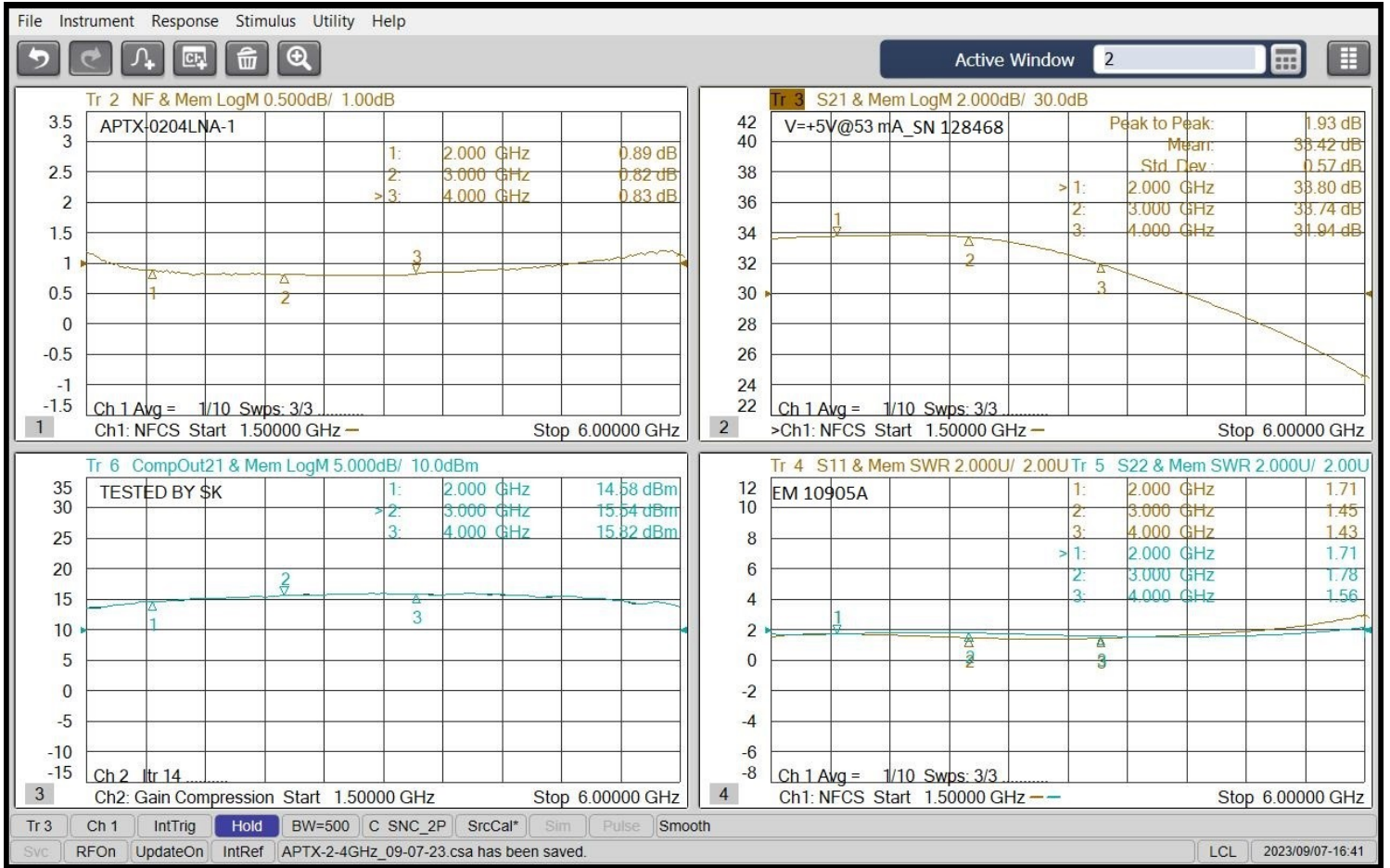
Product Description

Introducing the APTX-02000400-0914-BTO Coaxial In-Line Amplifier from our new line of competitively priced low noise amplifiers, featuring AmpliTech's MMIC Technology. This 2-4 GHz amplifier offers a 31 dB gain, 0.8 dB noise figure, and DC bias through the RF output. Used for a wide range of design applications and is suitable for Military and Commercial applications when cost considerations are paramount. And like all our low noise amplifiers, it comes with our standard 3-year warranty.

Applications

- Active Slope Equalizers
- Receiver Front Ends
- SATCOM Systems
- Radar Systems
- Laboratory Use

Data at 23°C



OUTLINE DRAWING

