Introducing our new line of Competitively Priced Low Noise Amplifiers Featuring AmpliTech's MMIC Technology



Key Parameters at 23°C

Parameters	Unit	Min	Typical	Max	Notes
Frequency	GHz	2.0	-	18.0	
Gain	dB	25	28	-	
Gain Flatness	dB	-	-	±0.5	
Noise Figure	dB	-	3.0	3.5	
In/Out VSWR	-	-	-	2.0:1	
P@1dB	dBm	+12	+15	-	
DC Power	V@mA	+12	+15	+24	@ 125 mA Nom
Outline/Package	-	-	-	-	D4-LC
Connectors (in/Out)	SMA Female/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	+125	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
- Frequency Range: 2.0 to 18.0 GHz
- Noise Figure: 3.0
- Gain: 25 dB Min
- Gain Flatness: ± 0.5 dB Max
- Output Power (P@1dB): +12 dBm Min
- Low Current: 125 mA
- State-of-the-Art PHEMT MMIC Technology
- MIL-883, MIL-45208 construction and reliability
- Internal DC regulator allows supply voltage from +15 VDC

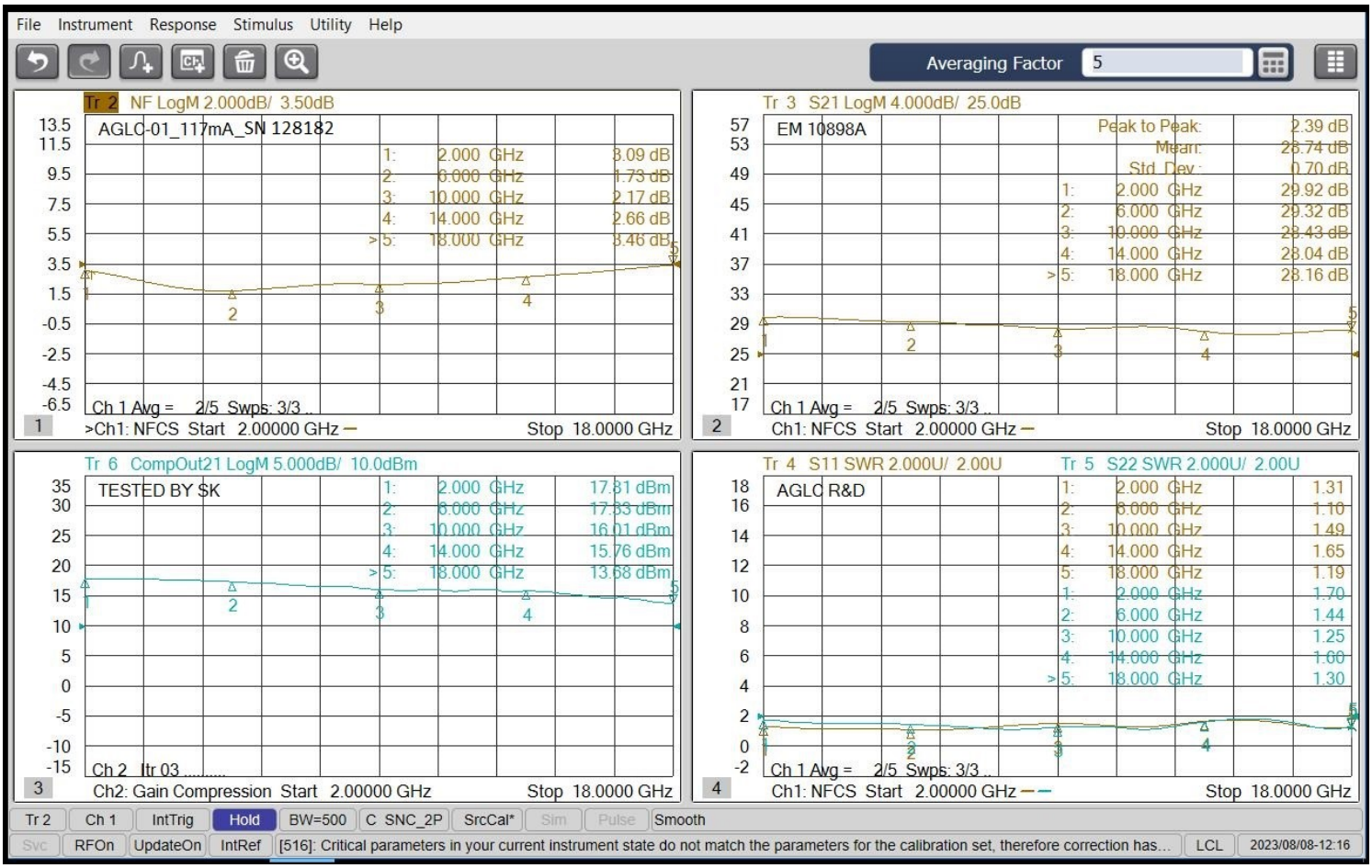
Product Description

Introducing the AGLC-02001800-3512-D4-LC from our new line of competitively priced low noise amplifiers, featuring AmpliTech's MMIC Technology. This 2-18 GHz amplifier offers a 25 dB gain and 3.0 dB noise figure. 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

- ECM Testing
- Instrumentation
- SATCOM Systems
- Radar Systems
- Test Systems

Data at 23°C


File Instrument Response Stimulus Utility Help
Averaging Factor 5
Tr 2 NF LogM 2.000dB/ 3.50dB
AGLC-01_117mA_SN 128182
1: 2.000 GHz 3.09 dB
2: 6.000 GHz 1.73 dB
3: 10.000 GHz 2.17 dB
4: 14.000 GHz 2.66 dB
>5: 18.000 GHz 3.46 dB
Ch 1 Avg = 2/5 Swps: 3/3
>Ch1: NFCS Start 2.00000 GHz
Stop 18.0000 GHz
Tr 3 S21 LogM 4.000dB/ 25.0dB
EM 10898A
Peak to Peak: 2.39 dB
Mean: 28.74 dB
Std Dev: 0.70 dB
1: 2.000 GHz 29.92 dB
2: 6.000 GHz 29.32 dB
3: 10.000 GHz 28.43 dB
4: 14.000 GHz 28.04 dB
>5: 18.000 GHz 28.16 dB
Ch 1 Avg = 2/5 Swps: 3/3
Ch1: NFCS Start 2.00000 GHz
Stop 18.0000 GHz
Tr 6 CompOut21 LogM 5.000dB/ 10.0dBm
TESTED BY $K
1: 2.000 GHz 17.81 dBm
2: 6.000 GHz 17.33 dBm
3: 10.000 GHz 16.01 dBm
4: 14.000 GHz 15.76 dBm
>5: 18.000 GHz 13.68 dBm
Ch 2 Itr 03
Ch2: Gain Compression Start 2.00000 GHz
Stop 18.0000 GHz
Tr 4 S11 SWR 2.000U/ 2.00U
Tr 5 S22 SWR 2.000U/ 2.00U
AGLC R&D
1: 2.000 GHz 1.31
2: 6.000 GHz 1.10
3: 10.000 GHz 1.49
4: 14.000 GHz 1.65
5: 18.000 GHz 1.19
1: 2.000 GHz 1.70
2: 6.000 GHz 1.44
3: 10.000 GHz 1.25
4: 14.000 GHz 1.60
>5: 18.000 GHz 1.30
Ch 1 Avg = 2/5 Swps: 3/3
Ch1: NFCS Start 2.00000 GHz
Stop 18.0000 GHz
Tr 2 Ch 1 IntTrig Hold BW=500 C SNC_2P SrcCal* Sim Pulse Smooth
Svc RFOn UpdateOn IntRef [516]: Critical parameters in your current instrument state do not match the parameters for the calibration set, therefore correction has... LCL 2023/08/08-12:16

OUTLINE DRAWING

