



INNOVATION IN THE RF/MICROWAVE TECHNOLOGY

High Quality Amplifiers for the Next Generation



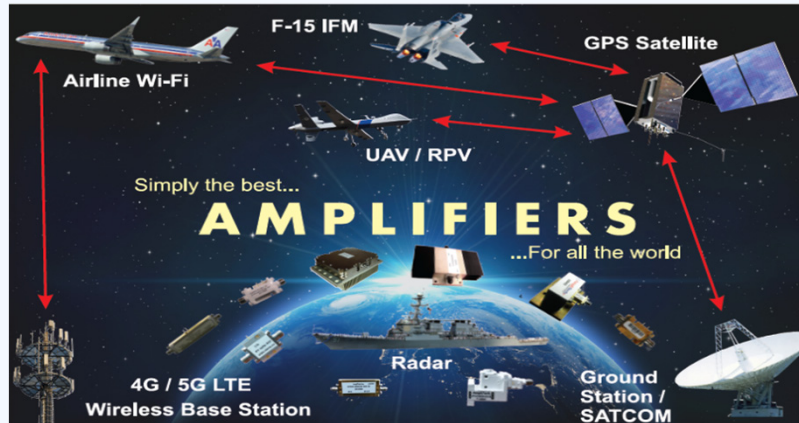
- *Competitive Price*
- *High Performance*
- *Space Qualified*

MADE IN USA



620 Johnson Avenue Bohemia, New York 11716 • Tel: 631-521-7831 • Fax: 631-521-7871
Website: www.apmlitechinc.com • Email: info@apmlitechinc.com

Who We Are.....



AmpliTech, Inc. has established a reputation for the highest quality amplifiers with the most difficult specifications in the world. It has cornered the market on custom designed amplifiers with special requirements such as military screening, space-grading and EMI shielding. To provide for customers dealing with extremely low noise figure applications, we have excelled in the cryogenic market as well. Customers agree, that we provide simply the best product and services available in the industry while maintaining lower prices than most of the competitors. We stand by our product with an iron-clad warranty as well as with technical support in helping our customers get the most from our products.

New Acquisition

AmpliTech is proud to announce the addition of **Specialty Microwave Corporation** to its Group with leading-edge SATCOM complementary products.

AmpliTech has expanded yet again by acquiring Specialty Microwave Corp. another leader in the industry focusing on switches, control systems and SATCOM hardware. We are in progress of developing new line of passive products including filters, detectors, limiters, and more

Specialists of Microwave Technology



Amplitech, a developer of custom and standard state-of-the-art RF components for the Commercial, SATCOM, Space, and Military markets has signed an asset purchase agreement to acquire the business assets of Specialty Microwave Corp. (SMW), a privately held company based in Ronkonkoma NY.

AmpliTech's Amplifiers

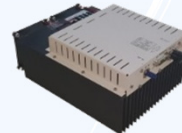
- Power Amplifiers
- SATCOM Amplifiers
- Cryogenic Amplifiers
- Ultra Wide Band LNAs
- Waveguide Amplifiers
- Narrow Band Amplifiers
- Surface Mount Amplifiers
- Low Frequency Amplifiers
- Low Phase Noise Amplifiers
- Millimeter Wave Amplifiers



**X/Ku Band
SATCOM 35-50K NT**



**Ka Band SATCOM
100K NT**



**100 W Power
Amplifier**

Featured Products of SMC



- Waveguide Assemblies
- Waveguide to Coax Adapters
- Dummy Loads
- Crossguide Couplers
- Broadwall Couplers
- Combiners
- Integrated Components
- Redundant LNA Controllers/**Plates**
- Subsystems
- Specialized Electronic Assemblies



The Best Amplifiers In The World.....And More

Standard state-of-the-art RF/Microwave components for the Commercial, SATCOM, Space, & Military markets.

- Highly customized RF/Microwave amplifiers that cover frequency ranges from 50 kHz to 110 GHz.
- Cryogenically cooled LNAs that achieve the lowest Noise Figures in the industry.
- High reliability Space-Qualified components that meet standards of excellence that no other manufacturer in the industry can match.
- Consulting services to provide technical support for any microwave components or systems design issues, even from other manufacturers.



ANTENNAS, CELLULAR
BASE STATIONS, WIRELESS



Featured Products...

Power Amplifiers

Part Number	Range (GHz)	Gain (dB)	Gain Flatness	Noise Figure	VSWR	P@1dB (dBm)	VDC	Outline
APTHP1-00200060-1835-D9	0.02-6.0	16	± 1.8 dB	3.0 dB	2.0:1	+35	+29	D9
AMTHPA-00700270-100W	0.7-2.7	53	±1.0 dB	3.4 dB	1.8:1	+50	+32	D50
AMTPA-02001800-4W	2.0-18.0	35	± 2.5 dB	5.5 dB	2.0:1	+36	+24	D36
APTMP3-00501800-3022-D4	0.5-18.0	32	± 2.0 dB	3.0 dB	2.5:1	+22	+15	D4

AMTHPA-00700270-100W

Product Features

- Broadband High Power Amplifier
- 700-2700MHz Operation Bandwidth
- Power Gain 53dB@ Pin -3dBm
- Gain Flatness+/-1.0 dB Typ.
- 100 W 'Typical @Pin -3dBm
- Unconditionally Stable
- 50 Ohm Input & Output Matched
- PAE 30%
- Built-in Heatsink & Fan Cooling

AMTPA-02001800-4W

Product Features

- Medium power 4W SSPA
- Wideband, 2 to 18 GHz
- High IP3,
- +44 dBm typ.
- High dynamic Input -3dBm
- High gain, 35dB typ.
- Good directivity
- Internal voltage regulated for 24 to 28VDC



MEDICAL DIAGNOSTICS AND TREATMENT

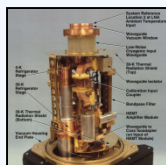
Featured Products...

Wide-Band LNA's

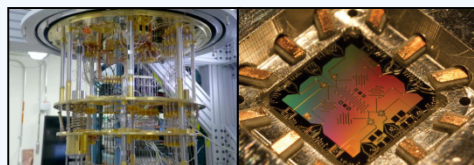
Part Number	Range (GHz)	Gain (dB)	Gain Flatness	Noise Figure	VSWR	P@1dB (dBm)	VDC	Outline
APT4-18004000-4008-D20	18.0-40.0	41	±3.0 dB	4.0 dB	2.3:1	+8	+11	D20
APT4-26004000-2310-D20	26.0-40.0	40	±2.5 dB	2.3 dB	2.0:1	+10	+15	D20
APT4-00502650-3010-D22	0.5-26.5	30	±2.0 dB	2.8 dB	2.5:1	+10	+15	D22
APT3-01001800-1910-D4	1.0-18.0	20	±2.0 dB	1.9 dB	2.5:1	+15	+15	D4
APT3-00101800-2510-D4	0.1-18.0	23	±2.0 dB	2.5 dB	2.0:1	+10	+15	D4

Cryogenic Amplifiers

Part Number	Range (GHz)	Gain (dB)	Gain Flatness	Noise Figure	VSWR	P@1dB (dBm)	VDC	Outline
APTC5-06002000-6K00-D4	6.0-20.0	34	± 1.5 dB	6K@8K	1.5:1	0	+0.8	D6/CR6
APTC5-16002800-6K00-42-D4	16.0-28.0	40	± 2.0 dB	6K@6K	1.5:1	0	+1.8	D6/CR6
APTC5-04000800-2K00-D4	4.0-8.0	39	± 0.5 dB	2K@6K	1.5:1	-6	+0.5	D4/CR4
APTC3-00501800-75K00-D4	0.5-18	38	± 2.5 dB	4K@6K	2.5:1	-6	+0.8	D4
APTC5-00301400-4K00-D4	0.3-14.0	40	± 2.0 dB	4K@6K	1.5:1	-10	+0.8	D6/CR4
APTC5-01001200-5K00-D4	1.0-12.0	39	± 2.0 dB	5K@12K	1.5:1	+1	+1.0	D6/CR4
APTC5-02000400-1K00-D4	2.0-4.0	38	± 2.5 dB	1K@6K	2.5:1	-10	+1.0	D6/CR4



**COLD LNA SPACE
EXPLORATION**



QUANTUM COMPUTING



**HIGH SENSITIVITY
TEST EQUIPMENT**

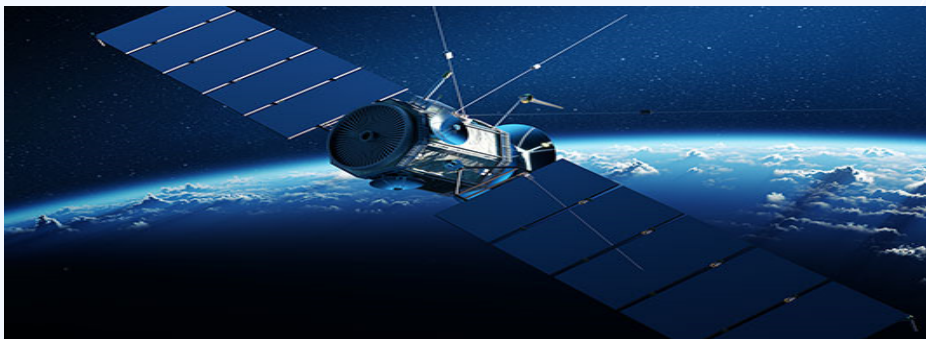
Featured Products...

SATCOM Amplifiers

Part Number	Range (GHz)	Gain (dB)	Gain Flatness	Noise Figure	VSWR	P@1dB (dBm)	VDC	Outline
APTW5-07250775-44K20-112	7.25-7.75	54	±0.50 dB	40 dB	1.25:1	+22	+16	WR112+D6
APTW6-10701275-75K10-WR75-D6	10.7-12.75	65	±0.75 dB	70 dB	1.3:1	+15	+16	WR75+D6
APTW5-17702020-120K20-42-S	17.7-20.2	52	±1.50 dB	115 dB	1.2:1	+12	+18	WR42+D4
APTW5-17801830-105K10-42-S	17.8-18.3	50	±0.75 dB	105 dB	1.5:1	+10	+15	WR42+D6

Low Phase Noise Amplifiers

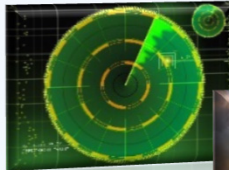
Part Number	Range (GHz)	Gain (dB)	Gain Flatness	Noise Figure	VSWR	P@1dB (dBm)	VDC	Outline
APT5-06001800-5017-D6-LPN	6.0-18	50	±1.0 dB	-140 dB	2.0:1	17	+15	D6
APT3-02000400-0613-D4-LPN	2.0-4.0	30	±2.0 dB	-145 dB	2.0:1	13	+15	D4



SATELLITE COMMUNICATIONS

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Product Applications.....



Radar



Space



Satellite



Passenger Aircraft



Drones



Wi-Fi Systems



Dish Antennas



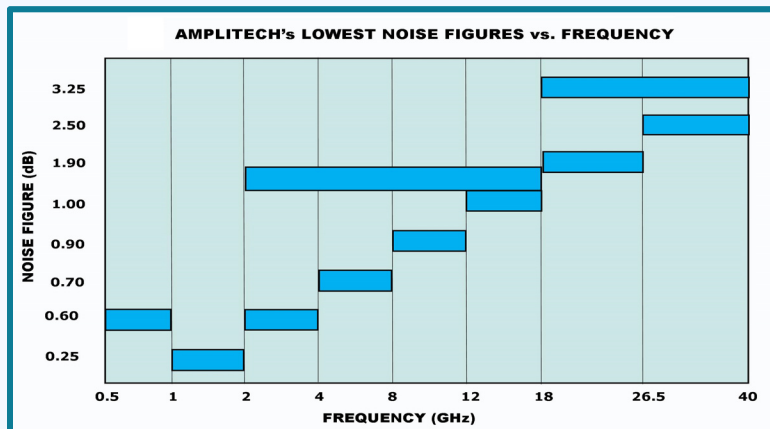
Cell Phones



Military Aircraft

What we do.....

AmpliTech, Inc. designs, develops, and manufactures custom and standard state-of-the-art RF components for the Commercial, SATCOM, Space, and Military markets. These designs cover the frequency range from 50 kHz to 110 GHz. AmpliTech also provides consulting services to help with any microwave components or systems design problems. Our growth has come about because we can provide complex, custom solutions.



The chart above demonstrates the superiority of AmpliTech's Low Noise Amplifiers by detailing the typical Noise Figures our LNAs can achieve over the most common Frequency bands in use today, up to 40 GHz.

What we do.....

- Base station amplifier system (FireAmp Series) for front end of all communications systems targeting wireless base stations for network carriers and airline Wi-Fi providers
- MMICs (Integrated Circuits) for virtually ALL communication and systems applications including encryption for low cost cyber-security applications for military and commercial markets
- Time frame only 8 months post-funding. Go-to-market, and revenue growth can start this year
- Funding efforts are critical to pending backlog where customers are showing sensitivity to current capital & liquidity



Our Customers.....



GOVERNMENT OF ISRAEL | MINISTRY OF DEFENSE



U.S. DEPARTMENT OF DEFENSE

AmpliTech's Facility



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