



5 Watts Class A 10 Watts Saturated RF Power for:

- Driving Ultrasonic Transducers
- Broadband Testing



Featuring:

- Instantaneous Bandwidth
- Compact Design
- Solid State Reliability

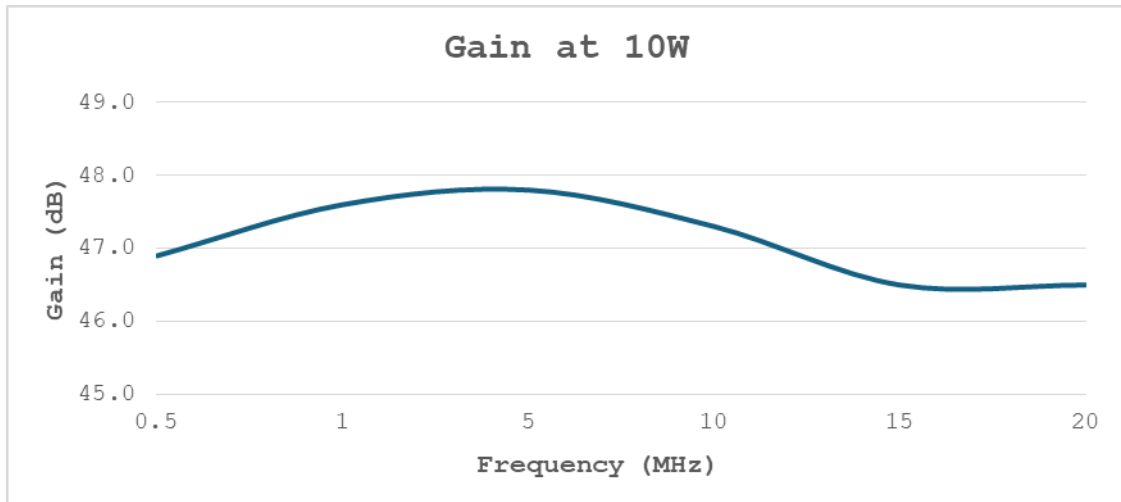


AL10W-LF AMPLIFIER MODULE

AL10W Specifications*

Class of Operation:	Class A up to 5W Saturated at 10W
Frequency Coverage:	500 kHz – 20 MHz
Rated Power:	10 Watts into 50 Ω
Power Gain:	47 dB nominal
Gain Flatness:	+/- 1.5 dB into 50 Ω at 5W +/- 1.5 dB into 50 Ω at 10W
Input Power for Rated Output Power:	-7.5 dBm
Input Impedance / VSWR:	50 Ω / 2:1 maximum
Output Load Impedance:	50 Ω nominal
Harmonic Level:	< -15 dBc at 5W Pout < -10 dBc at 10W Pout
Third Order Intercept	70 dB typical
Mismatch Tolerance:	∞ :1 VSWR, can handle full reflection of rated power
Stability:	Unconditional into any passive or reactive load
Protection:	Reverse DC polarity protection
DC Input:	12.5 DC +/-5%, 3A max
Cooling:	Requires forced air (Keep Q1 case temp below 80° C)
Dimensions (H x W x D):	1.5 x 3.25 x 3.25 inches 38 x 63.5 x 63.5 mm
Weight:	0.41 lbs. (0.19 kg)
Connectors:	SMA
RF Input Signal:	CW, AM, FM, SSB, Pulsed

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Notes:

- Forced air cooling is required: keep Q1 case temperature below 80°C
- Built-in reverse DC polarity protection
- Average gain will drop ~1dB from linear operation → saturated power



AL10W-LF – Performance into 50Ω				
Input Level		Amplifier Gain	Output Power	
Vpp	dBm	dB	Watts	Vpp
0.14	-13.03	47	2.5	31.60
0.20	-10.01	47	5	44.70
0.28	-7.00	47	10	63.25
0.31	-6.21	47	12	69.28



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