

High Power Amplifiers

- 0.3KHz - 3.0GHz
- Wide Band
- Excellent Linearity
- Low Distortion
- High Dynamic Range
- High Efficiency
- Small Size



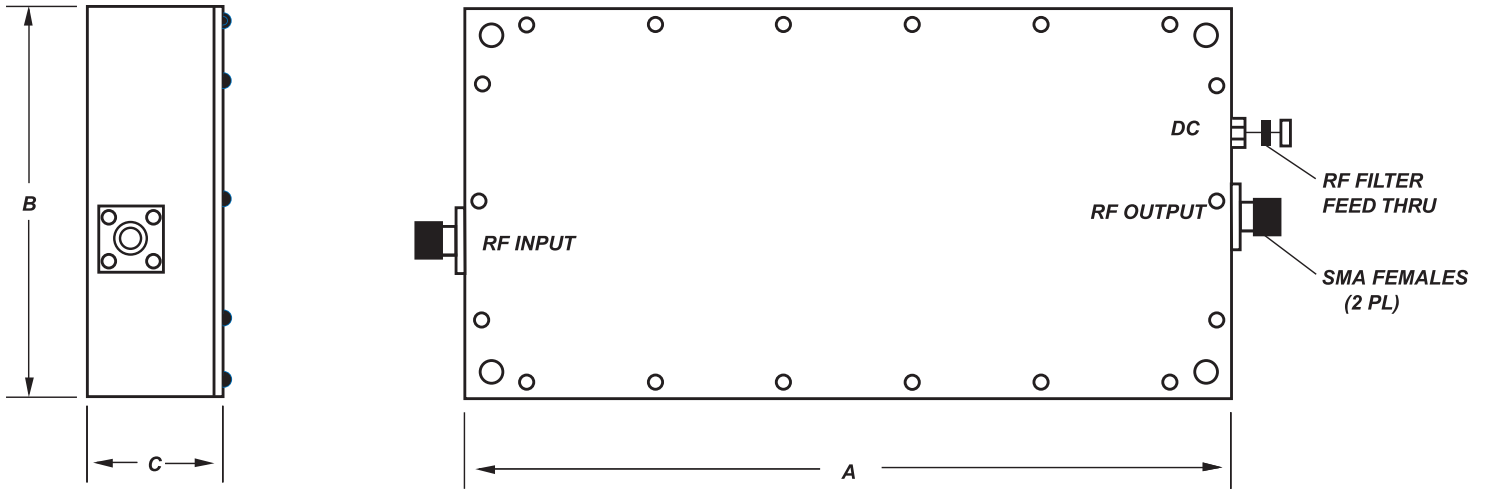
The AHP series of high power RF amplifiers utilise GaAs FET and Silicon MOSFET technology in class A and AB linear designs to provide high RF output power over wide frequency bands with low distortion and high efficiency. These amplifiers are particularly suited to applications in RFI/EMC testing, broadcasting, communications, cellular radio, satcom, EMC, laboratory testing and TWT replacement. In addition to the standard models listed, custom units can be offered to meet the requirements of specific applications.

Individual data sheets with guaranteed performance are available for all models.

General Electrical Specifications	
Impedance	50 ohms
Spurious	-70dBc typ.
Output VSWR	2.0:1 typ.
Operating Environment	
Operating Case Temperature	0 to +50C
Except Models:-	
AHP-10499-00 & AHP-10499-1-00	-10 to +60C
Storage Temperature	-30 +100C
Humidity	95% non-condensing
Options	
19" Rack Mounting with Forced Cooling	
Alternative RF Connectors	
Custom Frequency Ranges	
Extended Temperature Range	
Gain Control	
Reverse Polarity Protection	
Thermal Overload Protection	
Input Power Protection	

Model No.	Frequency Range (MHz)	Saturated Power (Watts) typ.	Linear Power (Watts) typ.	Gain (dB) typ.	Small Signal Gain Flatness (+/-dB) typ.	3rd Order Intercept IP3 (dBm) typ.	Harmonics (dBc) 2nd/3rd typ.	Volts (VDC) typ.	Current (A) typ.	Input VSWR (:1) max.	RF Connectors Female In / Out
AHP-10519-00	0.1-200	100	50	53	1	56	-23/-45	28	7	1.45	SMA
AHP-10505-00	0.53-1.7	250	200	65	0.5	60	-30	28	13	1.4	N
AHP-10520-00	3-90	100	50	45	1	57	-40/-24	28	7	1.3	SMA
AHP-10507-00	10-1000	2	1	11	1	36	-28	28	300mA	1.5	SMA
AHP-10508-00	10-1000	2	1	23	1	38	-36	28	750mA	1.5	SMA
AHP-10500-00	20-500	50	30	43	0.8	54	-28	28	6.8	2.0	SMA
AHP-10547-00	20-520	60	40	45	1	54	-20/-30	28	8.6	1.6	SMA
AHP-10503-00	27-100	150	100	50	0.5	58	-32	28	8	1.5	SMA in / N out
AHP-10499-00	30-88	100	80	13	1	57	-20	28	5	2.0	BNC
AHP-10499-1-00	30-88	100	80	13	1	57	-40/-20	25	9	1.5	BNC
AHP-10506-00	88-108	200	180	67	0.5	57	-27	28	10.3	1.4	N
AHP-10504-00	100-500	200	154	53	1	58	-27	28	17	2.0	SMA in / N out
AHP-10514-00	112-137	100	100	55	0.3	60	-24	28	5.4	1.3	SMA
AHP-10515-00	150-250	25	20	48	1	52	-30	28	1.9	1.3	SMA
AHP-10516-00	225-400	20	15	15	0.5	52	-23	24	1.6	1.5	SMA
AHP-10512-00	380-420	10 PEP	10	38	1	50	-19	24	1.5	2.0	SMA
AHP-10513-00	380-420	20 PEP	20	15	1	52	-31	28	3.2	2.0	SMA
AHP-10511-00	400-1000	70	50	48	0.5	55	-40	28	8.5	1.55	SMA
AHP-10501-00	500-1000	50	20	49	1	54	-40	28	6.8	1.7	SMA
AHP-10510-00	500-1000	80	50	48	0.5	55	-50	28	7.2	1.45	SMA
AHP-10518-00	500-1000	150	100	58	1	58	-28	28	17	2.0	SMA in / N out
AHP-10502-00	500-1000	150	100	50	1	58	-30	28	16	2.0	SMA in / N out
AHP-10530-00	800-3000	1.6	1	38	2	47	-30/-50	12.5	525mA	2.0	SMA in / out
AHP-10525-00	700-960	400	300	55	0.5	64	-50	28	47	1.4	SMA in / N out
AHP-10509-00	800-960	80	50	48	0.5	55	-50	28	8.2	1.45	SMA
AHP-10551-00	1100-1600	10	6.4	24	1	52	-35	13	2.9	2.0	SMA in / out

Active Components



Model No.	Dimensions (inches)			Dimensions (mm)		
	A	B	C	A	B	C
AHP-10519-00	10.2	7.4	1.5	259.08	187.96	38.1
AHP-10505-00	8.0	4.9	1.25	203.2	124.46	31.75
AHP-10520-00	3.0	8.0	1.25	76.2	203.2	31.75
AHP-10507-00	2.0	1.6	0.075	50.8	40.64	1.91
AHP-10508-00	3.5	1.6	0.75	88.9	40.64	19.05
AHP-10500-00	9.75	7.3	6.5	247.65	185.42	165.1
AHP-10547-00	5.3	2.5	1.05	134.62	63.5	26.67
AHP-10503-00	8.5	4.0	1.263	215.9	101.6	32.08
AHP-10499-00	3.7	10.8	4.4	93.98	274.32	111.76
AHP-10499-1-00	3.7	10.8	4.4	93.98	274.32	111.76
AHP-10506-00	8.0	4.9	1.25	203.2	124.46	31.75
AHP-10504-00	11.25	9.925	1.94	285.75	252.1	49.28
AHP-10514-00	5.0	3.35	1.4	127.0	85.09	35.56
AHP-10515-00	2.20	4.0	0.86	55.88	101.6	21.84
AHP-10516-00	2.20	4.0	0.86	55.88	101.6	21.84
AHP-10512-00	2.20	4.0	0.86	55.88	101.6	21.84
AHP-10513-00	2.20	4.0	0.86	55.88	101.6	21.84
AHP-10511-00	9.75	7.3	6.5	247.65	185.42	165.1
AHP-10501-00	9.75	7.3	6.5	247.65	185.42	165.1
AHP-10510-00	9.75	7.3	6.5	247.65	185.42	165.1
AHP-10518-00	9.0	6.125	1.25	228.6	155.58	31.75
AHP-10502-00	11.25	9.925	1.94	285.75	252.1	49.28
AHP-10530-00	2.50	4.7	0.57	63.5	119.38	14.48
AHP-10525-00	12.0	10.75	1.3	304.8	273.05	33.02
AHP-10509-00	9.75	7.3	6.5	247.65	185.42	165.1
AHP-10551-00	3.0	7.27	0.56	76.2	184.66	14.22

We reserve the right to change standard product specifications without notice but will be pleased to consider control drawings for quotation.

Active Components