



Standard Amplifiers											
Frequency Range (GHz)	Gain		Gain Flatness +/- (db)	Variation Over-temp Per deg/C	Noise Figure (db)	1 db Compression (dbm) min.	VSWR		+12 Vdc Current (ma) Typ.	Case Type	Model Number
	Min. (db)	Max. (db)					In	Out			
0.5 - 2	15	17	0.75	0.012	2.5	12	2.0:1	2.0:1	80	L1	ALD-P502S112
0.5 - 2	26	30	1	0.024	2.5	12	2.0:1	2.0:1	120	L2	ALD-P502S212
0.5 - 2	30	34	1	0.024	2.5	15	2.0:1	2.0:1	150	L2	ALD-P502S215
0.5 - 2	40	45	1.5	0.036	2.5	20	2.0:1	2.0:1	225	L3	ALD-P502S320
0.5 - 4	15	17	0.75	0.012	2.5	10	2.0:1	2.0:1	80	L1	ALD-P504S110
0.5 - 4	26	30	1	0.024	2.5	10	2.0:1	2.0:1	120	L2	ALD-P504S210
0.5 - 4	30	34	1	0.024	2.5	15	2.0:1	2.0:1	150	L2	ALD-P504S215
0.5 - 4	40	45	1.5	0.036	2.5	20	2.0:1	2.0:1	225	L3	ALD-P504S320
0.5 - 12	10	13	0.75	0.012	5	12	2.0:1	2.0:1	100	L1	ALD-P512S112
0.5 - 12	20	26	1.5	0.024	4.5	15	2.0:1	2.0:1	160	L2	ALD-P512S215
0.5 - 12	26	32	1.5	0.036	4.5	20	2.0:1	2.0:1	300	L3	ALD-P512S320
0.5 - 12	34	40	2	0.044	4.5	20	2.0:1	2.0:1	350	L4	ALD-P512S420
2 - 8	15	17	1	0.010	2.5	8	2.0:1	2.0:1	80	L1	ALD-0208S108
2 - 8	30	34	1.5	0.020	2.5	12	2.0:1	2.0:1	125	L2	ALD-0208S212
2 - 8	42	46	2	0.032	2.5	20	2.0:1	2.0:1	200	L3	ALD-0208S320
6 - 12	10	12	0.75	0.010	2.5	8	2.0:1	2.0:1	80	L1	ALD-0612S108
6 - 12	20	24	1	0.020	2.5	10	2.0:1	2.0:1	125	L2	ALD-0612S210
6 - 12	25	30	1.5	0.032	2.7	15	2.0:1	2.0:1	200	L3	ALD-0612S315
6 - 12	28	32	1.5	0.032	2.7	21	2.0:1	2.0:1	225	L3	ALD-0612S321
6 - 12	38	42	2	0.044	2.7	21	2.0:1	2.0:1	275	L4	ALD-0612S421
6 - 18	10	12	1	0.010	2.5	8	2.0:1	2.0:1	80	L1	ALD-0618S108
6 - 18	18	22	1.5	0.020	2.5	8	2.0:1	2.0:1	125	L2	ALD-0618S208
6 - 18	25	30	1.5	0.032	2.7	15	2.0:1	2.0:1	200	L3	ALD-0618S315
6 - 18	28	32	1.5	0.032	2.7	20	2.0:1	2.0:1	225	L3	ALD-0618S320



Standard Amplifiers											
Frequency Range (GHz)	Gain		Gain Flatness +/- (db)	Variation Over-temp Per deg/C	Noise Figure (db)	1 db Compression (dbm) min.	VSWR		+12 Vdc Current (ma) Typ.	Case Type	Model Number
	Min. (db)	Max. (db)					In	Out			
6 - 18	38	42	2	0.044	2.7	20	2.0:1	2.0:1	275	L4	ALD-0618S420
2 - 18	9	12	1	0.010	4	8	2.0:1	2.0:1	100	L1	ALD-0218S108
2 - 18	18	22	1.5	0.020	4	8	2.0:1	2.0:1	175	L2	ALD-0218S208
2 - 18	24	28	1.5	0.032	4	15	2.0:1	2.0:1	250	L3	ALD-0218S315
2 - 18	28	32	2	0.032	4	20	2.0:1	2.0:1	310	L3	ALD-0218S320



Temperature Compensated Amplifiers										
Frequency Range (GHz)	Gain		Gain Flatness +/- (db)	Noise Figure (db)	1 db Compression (dbm) min.	VSWR		+12 Vdc Current (ma) Typ.	Case Type	Model Number
	Min. (db)	Max. (db)				In	Out			
0.5 - 2	27	31	0.75	3.5	10	2.0:1	2.0:1	160	L3	ALDP502T310
0.5 - 2	36	41	1	3.5	12	2.0:1	2.0:1	220	L4	ALDP502T412
0.5 - 2	42	47	1	3.5	15	2.0:1	2.0:1	270	L5	ALDP502T515
0.5 - 2	38	43	1.5	3.5	20	2.0:1	2.0:1	325	L5	ALDP502T520
0.5 - 4	27	31	0.75	3.5	10	2.0:1	2.0:1	160	L3	ALDP504T310
0.5 - 4	36	41	1	3.5	12	2.0:1	2.0:1	220	L4	ALDP504T412
0.5 - 4	42	47	1	3.5	15	2.0:1	2.0:1	270	L5	ALDP504T515
0.5 - 4	38	43	1.5	3.5	20	2.0:1	2.0:1	325	L5	ALDP504T520
2 - 8	27	31	1	4	10	2.0:1	2.0:1	160	L3	ALD0208T310
2 - 8	35	39	1.5	4	12	2.0:1	2.0:1	220	L4	ALD0208T412
2 - 8	40	45	2	4	15	2.0:1	2.0:1	280	L5	ALD0208T512
2 - 8	36	41	2	4	20	2.0:1	2.0:1	325	L5	ALD0208T520
6 - 12	27	31	0.75	4	8	2.0:1	2.0:1	180	L4	ALD0612T408
6 - 12	37	41	1	4	12	2.0:1	2.0:1	250	L5	ALD0612T512
6 - 12	35	39	1.5	4	15	2.0:1	2.0:1	280	L5	ALD0612T515
6 - 12	37	41	1.5	4	20	2.0:1	2.0:1	325	L5	ALD0612T520
6 - 18	26	30	1	4	8	2.0:1	2.0:1	180	L4	ALD0618T408
6 - 18	35	40	1.5	4	12	2.0:1	2.0:1	250	L5	ALD0618T512
6 - 18	32	37	1.5	4	15	2.0:1	2.0:1	280	L5	ALD0618T515
6 - 18	35	40	1.5	4	20	2.0:1	2.0:1	325	L5	ALD0618T520
2 - 18	25	30	1	5	8	2.0:1	2.0:1	200	L4	ALD0218T408
2 - 18	35	40	1.5	5	10	2.0:1	2.0:1	260	L5	ALD0218T510
2 - 18	30	35	1.5	5	15	2.0:1	2.0:1	320	L5	ALD0218T515
2 - 18	32	37	2	5	20	2.0:1	2.0:1	375	L5	ALD0218T520



Octave Band Amplifiers										
Frequency Range (GHz)	Gain Typ. (db)		Gain Flatness +/- (db)	Noise Figure (db)	1 db Compression (dbm) min.	VSWR		+12 Vdc	Case Type	Model Number
						In	Out	Current (ma) Typ.		
2 - 4	15	17	0.75	1.7	8	2.0	2.0	50	L1	ALD-0204S108
2 - 4	28	34	1	1.7	14	2.0	2.0	125	L2	ALD-0204S214
2 - 4	26	32	1	2	20	2.0	2.0	160	L2	ALD-0204S220
2 - 4	26	32	1	3	25	2.0	2.0	240	L2	ALD-0204S225
4 - 8	27	33	1	2	14	2.0	2.0	125	L2	ALD-0408S214
4 - 8	25	31	1	2.5	20	2.0	2.0	160	L2	ALD-0408S220
4 - 8	25	31	1	3.5	25	2.0	2.0	240	L2	ALD-0204S225
8 - 12	10	12	0.75	2.2	8	2.0	2.0	50	L1	ALD-0812S108
8 - 12	20	24	1	2.2	14	2.0	2.0	125	L2	ALD-0812S214
8 - 12	20	24	1	4	20	2.0	2.0	180	L2	ALD-0812S220
8 - 12	27	31	1	4	25	2.0	2.0	350	L3	ALD-0812S325
12 - 18	10	12	0.75	2.5	8	2.0	2.0	50	L1	ALD-1218S108
12 - 18	18	22	1	2.5	14	2.0	2.0	125	L2	ALD-1218S214
12 - 18	18	22	1	4	20	2.0	2.0	180	L2	ALD-1218S220
12 - 18	26	30	1.25	4	25	2.0	2.0	375	L3	ALD-1218S225



Low Noise Amplifiers									
Frequency Range (GHz)	Gain Typ. (db)	Gain Flatness +/- (db)	Noise Figure (db)	1 db Compression (dbm) min.	VSWR		+12 Vdc	Case Type	Model Number
					In	Out	Current (ma) Typ.		
1 - 2	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-0102S210
2 - 3	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-0203S210
3 - 3.5	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-0335S210
3.5 - 4	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-3504S210
4 - 4.5	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-0445S210
4.5 - 5	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-4504S210
5 - 5.5	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-0555S210
5.5 - 6	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-5506S210
6 - 6.5	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-0665S210
6.5 - 7	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-6507S210
7 - 7.5	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-0775S210
7.5 - 8	28	1	1	10	2.0:1	2.0:1	80	L2	ALN-7508S210
8 - 8.5	25	1	1	10	2.0:1	2.0:1	80	L2	ALN-0885S210
8.5 - 9	25	1	1	10	2.0:1	2.0:1	80	L2	ALN-8509S210
9 - 9.5	25	1	1	10	2.0:1	2.0:1	80	L2	ALN-0995S210
9.5 - 10	25	1	1	10	2.0:1	2.0:1	80	L2	ALN-9510S210
10 - 10.5	30	1	1	12	2.0:1	2.0:1	100	L3	ALN-1015S312
10.5 - 11	30	1	1	12	2.0:1	2.0:1	100	L3	ALN-1011S312
11 - 11.5	30	1	1	12	2.0:1	2.0:1	100	L3	ALN-1115S312
11.5 - 12	30	1	1	12	2.0:1	2.0:1	100	L3	ALN-1112S312
12 - 12.5	30	1	1	12	2.0:1	2.0:1	100	L3	ALN-1215S312
12.5 - 13	30	1	1	12	2.0:1	2.0:1	100	L3	ALN-1213S312
13 - 13.5	30	1	1	12	2.0:1	2.0:1	100	L3	ALN-1315S312
13.5 - 14	30	1	1.2	12	2.0:1	2.0:1	100	L3	ALN-1314S312



Low Noise Amplifiers									
Frequency Range (GHz)	Gain Typ. (db)	Gain Flatness +/- (db)	Noise Figure (db)	1 db Compression (dbm) min.	VSWR		+12 Vdc	Case Type	Model Number
					In	Out	Current (ma) Typ.		
14 - 14.5	30	1	1.2	12	2.0:1	2.0:1	100	L3	ALN-1415S312
14.5 - 15	30	1	1.2	12	2.0:1	2.0:1	100	L3	ALN-1515S312
15 - 15.5	30	1	1.2	12	2.0:1	2.0:1	100	L3	ALN-1516S312



Broadband Power Amplifiers										
Frequency Range (GHz)	Gain Typ. (db)	Gain Flatness +/- (db)	Noise Figure (db)	1 db Compression (dbm)	Intermod Typ. IM3	VSWR		+12 Vdc	Case Type	Model Number
						In	Out	Current (ma) Typ.		
0.5 - 2	30	1.5	4.0	30	40	2.0:1	2.0:1	1000	S-4	ALP-0520S430
0.5 - 2	30	1.5	4.0	33	42	2.0:1	2.0:1	1600	P-4	ALP-0520P433
0.5 - 5.5	30	1.5	4.0	27	35	2.0:1	2.0:1	800	S-4	ALP-0555S427
0.5 - 12	30	1.5	4.0	23	33	2.0:1	2.0:1	500	S-4	ALP-0512S423
2 - 8	30	1.5	4.0	25	35	2.0:1	2.0:1	750	S-4	ALP-0208S425
2 - 8	30	1.5	4.0	27	37	2.0:1	2.0:1	850	S-4	ALP-0208S427
2 - 8	30	1.5	4.0	30	40	2.0:1	2.0:1	1000	S-4	ALP-0208S430
2 - 8	30	1.5	4.5	33	41	2.0:1	2.0:1	1600	P-4	ALP-0208P433
6 - 12	30	1.5	5.0	27	37	2.0:1	2.0:1	850	S-4	ALP-0612S427
6 - 12	30	1.5	5.0	30	40	2.0:1	2.0:1	1000	S-4	ALP-0612S430
6 - 12	30	1.5	5.5	33	41	2.0:1	2.0:1	1800	P-4	ALP-0612P433
6 - 18	30	1.5	5.5	25	35	2.0:1	2.0:1	750	S-4	ALP-0618S425
6 - 18	30	1.5	6.0	27	37	2.0:1	2.0:1	950	S-4	ALP-0618S427
6 - 18	30	1.5	6.0	30	40	2.0:1	2.0:1	1800	P-4	ALP-0618P430
2 - 18	30	1.5	5.5	23	33	2.0:1	2.0:1	750	S-4	ALP-0218S423
2 - 18	30	1.5	6.0	25	35	2.0:1	2.0:1	950	S-4	ALP-0218S425
2 - 18	30	2.0	6.0	27	35	2.0:1	2.0:1	1900	P-4	ALP-0218P427
2 - 18	30 min.	2.0	6.0	+29 (+30Typ.)	38	2.0:1	2.0:1	2100 Typ	P-4	ALP-0218P429



High Power Amplifiers										
Frequency Range (GHz)	Gain Typ. (db)	Gain Flatness +/- (db)	Noise Figure (db)	1 db Compression (dbm)	Intermod Typ. IP3	VSWR		+12 Vdc	Case Type	Model Number
						In	Out	Current (ma) Typ.		
2.1 - 2.3	30	1	5.0	40	47	2.0:1	2.0:1	4	HP1	AHP-2123HP12
2.5 - 2.7	30	1.0	5.0	40	47	2.0:1	1.5:1	6	HP1	AHP-2527HP12
3.7 - 4.2	30	1.0	5.0	40	47	2.0:1	1.5:1	5	HP1	AHP-3742HP12
4.4 - 5	30	1.0	5.0	40	47	2.0:1	1.5:1	5	HP1	AHP-4450HP12
5.3 - 5.9	30	1.0	5.0	40	47	2.0:1	1.5:1	5	HP1	AHP-5359HP12
5.9 - 6.4	30	1.0	5.0	40	47	2.0:1	1.5:1	5	HP1	AHP-5964HP12
6 - 7.1	30	1.0	5.0	38.5 TYP.	47	2.0:1	1.5:1	5	HP2	AHP-6071HP08
6.4 - 7.2	30	1.0	5.0	40	47	2.0:1	1.5:1	5	HP1	AHP-6472HP12
7.1 - 7.9	30	1.0	5.0	40	47	2.0:1	1.5:1	5	HP1	AHP-7179HP12
7.1 - 8.5	30	1.0	5.0	40	47	2.0:1	1.5:1	6.5	HP2	AHP-7185HP12
7.7 - 8.5	30	1.0	5.0	40	47	2.0:1	1.5:1	6.5	HP2	AHP-7785HP12
9.5 - 10.5	30	1.0	5.0	38.5 TYP.	47	2.0:1	1.5:1	5	HP1	AHP-9510HP08
9 - 10.5	30	1.0	5.0	42.0 TYP	50	2.0:1	1.5:1	8	HP10	AHP-9010HP20
10.7 - 11.7	30	1.0	5.0	40 TYP	47	2.0:1	1.5:1	6.5	HP2	AHP-1011HP12
12.7 - 13.2	30	1.0	5.0	40 TYP	47	2.0:1	1.5:1	6.5	HP2	AHP-1213HP12
14 - 14.5	30	1.0	5.0	40	47	2.0:1	1.5:1	6.5	HP2	AHP-1414HP12
14.4 - 14.83	30	1.0	5.0	40	47	2.0:1	1.5:1	6.5	HP2	AHP-1414HP12-A
15.1 - 15.35	30	1.0	5.0	40 TYP	47	2.0:1	1.5:1	6.5	HP2	AHP-1414HP12-G
14.4 - 15.35	30	1.0	5.0	40 TYP	47	2.0:1	1.5:1	6.5	HP2	AHP-1415HP12



Limiting Amplifiers											
Frequency Range (GHz)	Input Dynamic Range	Sat. Flatness +/- (db)	Variation Over Dyn Range	Noise Figure (db)	Output Power (dbm)	Harmonic Typ. (dbc)	VSWR		+12 Vdc Current (ma) Typ.	Case Type	Model Number
							In	Out			
0.5 - 2	-65 to +10dbm	1.5	1.5	4.0	+12	-12	2.0:1	2.0:1	450	XS-4 (2)	LIM-0520X612
0.5 - 2	-65 to +10dbm	1.5	1.5	4.0	+17	-12	2.0:1	2.0:1	475	XS-4 (2)	LIM-0520X617
0.5 - 2	-65 to +10dbm	1.5	1.5	4.0	+21	-12	2.0:1	2.0:1	500	XS-4 (2)	LIM-0520X621
2 - 6	-65 to +10dbm	1.5	1.5	4.0	+12	-15	2.0:1	2.0:1	450	XS-4 (2)	LIM-0206X612
2 - 6	-65 to +10dbm	1.5	1.5	4.0	+17	-15	2.0:1	2.0:1	475	XS-4 (2)	LIM-0206X617
2 - 6	-65 to +10dbm	1.5	1.5	4.0	+21	-15	2.0:1	2.0:1	500	XS-4 (2)	LIM-0206X621
6 - 12	-65 to +10dbm	1.5	1.5	4.5	+12	-12	2.0:1	2.0:1	500	XS-4 (2)	LIM-0612X612
6 - 12	-65 to +10dbm	1.5	1.5	4.5	+17	-12	2.0:1	2.0:1	525	XS-4 (2)	LIM-0612X617
6 - 12	-65 to +10dbm	1.5	1.5	4.5	+21	-12	2.0:1	2.0:1	550	XS-4 (2)	LIM-0612X621
6 - 18	-65 to +10dbm	1.5	1.5	4.5	+12	-12	2.0:1	2.0:1	500	XS-4 (2)	LIM-0618X612
6 - 18	-65 to +10dbm	1.5	1.5	4.5	+17	-12	2.0:1	2.0:1	525	XS-4 (2)	LIM-0618X617
6 - 18	-65 to +10dbm	1.5	1.5	4.5	+21	-12	2.0:1	2.0:1	550	XS-4 (2)	LIM-0618X621
2 - 18	-45 to +10dbm	1.5	2.0	4.5	+12	-12	2.0:1	2.0:1	500	XS-4 (2)	LIM-0218X612
2 - 18	-45 to +10dbm	1.5	2.0	4.5	+17	-12	2.0:1	2.0:1	550	XS-4 (2)	LIM-0218X617
2 - 18	-45 to +10dbm	1.5	2.0	4.5	+21	-12	2.0:1	2.0:1	600	XS-4 (2)	LIM-0218X620



Ultra Broadband Amplifiers										
Frequency Range (GHz)	Gain		Gain Flatness +/- (db)	Noise Figure (db)	1 db Compression (dbm) min.	VSWR		+12 Vdc	Case Type	Model Number
	Min. (db)	Max. (db)				In	Out	Current (ma) Typ.		
0.1 - 20	18	26	1.5	5.0	10	2.2:1	2.2:1	180	MM3	ALU-P120S212
0.1 - 20	16	24	1.5	5.5	18	2.2:1	2.2:1	350	MM3	ALU-P120S218
0.1 - 20	26	32	1.75	5.5	24	2.2:1	2.2:1	560	MM3	ALU-P120S324
2 - 20	26	30	1.5	4	12	2.2:1	2.2:1	175	L-2	ALU-0220S112



MilimeterWave Amplifiers										
Frequency Range (GHz)	Gain		Gain Flatness +/- (db)	Noise Figure (db)	1 db Compression (dbm) min.	VSWR		+12 Vdc	Case Type	Model Number
	Min. (db)	Max. (db)				In	Out	Current (ma) Typ.		
18 - 26.5	18	24	1.5	4.0	10	2.2:1	2.2:1	150	MM3	ALM-1826S110
18 - 26.5	38	44	2.5	4.0	10	2.2:1	2.2:1	300	MM4	ALM-1826S210
18 - 26.5	18	24	2.0	4.0	16	2.2:1	2.2:1	175	MM3	ALM-1826S116
20 - 26.5	19	24	1.5	5.0	22	2.2:1	2.2:1	250	MM3	ALM-2026S122
20 - 26.5	38	46	1.5	4.5	22	2.2:1	2.2:1	370	MM4	ALM-2026S222
19 - 25	30	36	1.75	5.5	28	2.2:1	2.2:1	700	MM4	ALM-1925S228