

Amplifier Products Selection Guide

I. High & Medium Power Amplifier

Product No.	Freq. (GHz)	Gain (dB Min)	G.O.F (+/-dB)	N.F (dB)	P-1dB (dBm Min)	IP3 (dBm)	Voltage (V)	Current. (mA)	Case
TA001-005-13-20	0.01-0.5	13	0.3	4.0	20		12	90	HZ7
TA001-005-25-16	0.01-0.5	25	0.5	3.8	16		12	100	HZ8
TA001-010-10-20	0.05-1	10	0.5	5.5	20		12	90	HZ7
TA001-010-20-15	0.05-1	20	0.75	5.0	15	23	12	140	HZ9
TA001-010-24-27	0.05-1	24	0.75	5.0	27	36	12	400	HZ9
TA005-020-13-24	0.5-2	14	0.4	2.7	24	34	12	180	HS3
TA005-020-15-15	0.5-2	17	0.4	1.8	15	25	12	70	HS3
TA005-020-15-20	0.2-2	17	0.4	2.3	20	30	12	150	HS3
TA005-020-27-24	0.5-2	30	0.6	2.7	24	34	12	240	HS3
TA005-020-30-15	0.5-2	33	0.6	1.8	15	25	12	120	HS3
TA005-020-30-20	0.5-2	33	0.6	2.3	20	30	12	200	HS3
TA005-020-42-24	0.5-2	46	0.8	2.7	24	34	12	300	HS4
TA005-020-45-15	0.5-2	50	0.8	1.8	15	25	12	180	HS4
TA005-020-45-20	0.5-2	50	0.8	2.3	20	30	12	250	HS4
TA005-025-10-24	0.5-2.5	10	0.5	6.0	24		12	150	
TA005-025-14-19	0.5-2.5	14	0.5	4.0	19		12	75	
TA005-025-23-24	0.5-2.5	23	0.75	4.0	24		12	240	
TA005-025-25-20	0.5-2.5	25	0.75	3.5	20		12	160	
TA005-055-20-24	0.8-5.5	20	0.5		25	34	12	750	HC6
TA010-020-15-15	1-2	16	0.5	3.8	17		12	100	HG2
TA012-014-40-40	1.2-1.4	40			40		11	4000	HA2B
TA018-019-48-43	1.8-1.9	48	0.3		43(Psat)		12	5000	HA4
TA018-019-51-46	1.8-1.9	51	0.3		46(Psat)		12	6000	HA4
TA020-040-37-35	2-4	39	0.5	5	35		12	1600	
TA020-040-42-38	2-4	45	0.5	4	38		12	4200	HA2
TA020-060-00-16	2-6			3.5	16(Psat)		12	450	HO5
TA020-060-11-10	2-6	12	0.4	2.3	10	20	12	80	HG3
TA020-060-12-21	2-6	13	0.4	4.5	21	31	12	110	HG3
TA020-060-12-23	2-6	13	0.4	5.4	23	33	12	180	HG3
TA020-060-20-27	2-6	22	0.6	5.4	27	37	12	420	HG3
TA020-060-22-13	2-6	24	0.6	2.3	13	23	12	80	HG3
TA020-060-24-21	2-6	26	0.6	3.6	21	31	12	150	HG3
TA020-060-24-23	2-6	26	0.6	4.5	23	33	12	250	HG3
TA020-060-30-27	2-6	33	0.8	5.4	27	37	12	480	HG3
TA020-060-30-30	2-6	33	0.6	4.5	30	40	12	1000	HC4
TA020-060-30-33	2-6	33	0.6	4.5	33	43	12	1800	HA1
TA020-060-30-35	2-6	33	0.8	4.5	35	45	12	4000	HA2
TA020-060-35-13	2-6	39	0.8	2.3	13	23	12	120	HG3
TA020-060-35-21	2-6	39	0.8	3.6	21	31	12	200	HG3
TA020-060-35-23	2-6	39	0.8	4.5	23	33	12	300	HG3
TA020-060-36-34	2-6	36	1.5	6	34		12	2200	HA2
TA020-060-40-30	2-6	44	0.8	4.5	30	40	12	1100	HC4
TA020-060-40-33	2-6	44	0.8	4.5	33	43	12	1900	HA1

TA020-060-40-35	2-6	44	1.0	4.5	35	45	12	4200	HA2
TA020-100-30-15	2-10	30		4	15		12	160	HG5
TA020-180-20-10	2-18	20		4.5	13		12	150	HG3
TA020-180-28-16	2-18	28	1.5	4.5	16		12	250	HD4
TA021-035-32-15	2.1-3.5	32	0.5	2.2	15	27	12	275	HC51
TA024-025-35-35	2.4-2.5	36	0.5		36	46	12	1700	HA7
TA024-060-23-32	2.4-6	23	1.5	6	33		12	1700	HA16
TA025-035-31-33	2.5-3.5	32	0.7	4.8	33.5		12	1500	
TA028-048-36-17	2.8-4.8	36	0.5	5	17		12	200	HO4
TA031-035-30-30	3.1-3.5	30	0.7	4.5	30(Psat)		12	900	HW74
TA031-035-40-10	3.1-3.5	40	0.3	1.1	15		12	150	HC6
TA031-035-43-40	3.1-3.5	43	1.5	4	40(Pout)		12	5000	HA2B
TA031-035-43-43	3.1-3.5	47		3.5	43(Pout)		12	9000	HA8
TA034-036-18-36	3.4-3.6	20	0.25	4	36	45	12	2500	
TA040-060-40-40	4-6	40	1.0	5	39		12	8000	HA2
TA044-050-40-43	4.4-5	42	1.25		43(Pout)		28	5000	
TA050-062-45-27	5-6.2	42.5	0.7	7	27.5		12	500	HT51
TA053-059-22-10	5.3-5.9	22	0.5	1.0	10	20	12	90	HG2
TA053-059-35-33	5.3-5.9	35	0.5	4.5	33	42	12	1200	HA1
TA053-059-38-36	5.3-5.9	38	0.5	4.5	36	45	12	2400	HA1
TA053-059-41-38	5.3-5.9	41	0.5	4.5	39	48	12	4700	HA1
TA053-059-41-40	5.3-5.9	46		5	40(Psat)		12	6500	HA3
TA059-069-45-32	5.9-6.9	45	0.5	4.0	33	42	12	1400	HA1
TA059-069-48-36	5.9-6.9	48	0.5	4.5	36	45	12	2400	HA1
TA060-120-10-21	6-12	11	0.4	4.1	21	31	12	110	HG3
TA060-120-11-10	6-12	12	0.4	2.3	10	20	12	50	HG3
TA060-120-15-27	6-12	17	0.6	5.0	27	37	12	400	HG3
TA060-120-20-21	6-12	22	0.6	3.6	21	31	12	180	HG3
TA060-120-22-15	6-12	24	0.6	2.3	15	25	12	120	HG3
TA060-120-25-27	6-12	28	0.8	5.0	27	37	12	450	HG4
TA060-120-30-21	6-12	33	0.8	3.6	21	31	12	250	HG4
TA060-120-35-15	6-12	39	0.8	2.3	15	25	12	180	HG4
TA060-120-35-27	6-12	39	1.0	5.0	27	37	12	500	HG5
TA060-120-35-30	6-12	39	1.0	4.5	30	40	12	1300	HA1
TA060-120-35-33	6-12	39	1.2	5.4	33	43	12	2500	HA2
TA060-120-45-30	6-12	50	1.2	4.5	30	40	12	1400	HA1
TA060-180-10-10	6-18	11	0.4	2.7	10	20	12	50	HG3
TA060-180-10-15	6-18	11	0.4	3.6	15	25	12	80	HG3
TA060-180-15-20	6-18	17	0.6	4.5	20	30	12	160	HG3
TA060-180-20-10	6-18	22	0.6	2.7	10	20	12	100	HG3
TA060-180-20-15	6-18	22	0.6	3.6	15	25	12	150	HG3
TA060-120-25-20	6-18	28	0.8	4.5	20	30	12	200	HG5
TA060-180-25-24	6-18	28	0.8	5.4	24	34	12	350	HG5
TA060-180-28-20	6-18	30	2	3.5	21		12	490	HO7
TA060-180-28-27	6-18	31	1.2	5.4	27	37	12	800	HG6
TA060-180-30-15	6-18	33	0.8	2.7	15	25	12	180	HG4
TA060-180-30-20	6-18	33	0.8	3.6	20	30	12	250	HG4
TA060-180-30-28	6-18	30	1.0	3.5	28.5		12	1300	HD7
TA060-180-35-20	6-18	39	1.0	4.5	20	30	12	250	HG5
TA060-180-35-24	6-18	39	1.0	5.4	24	34	12	400	HG5
TA060-180-38-27	6-18	42	1.4	5.4	27	37	12	900	HG7
TA075-180-24-12	7.5-18	24	1.0	4.5	12	22	12	180	
TA080-120-41-30	8-12	41	1.0	3.5	30		12	1200	HA1

TA080-180-15-15	8-18	17	1.0	4.0	17	17	12	180	HG4
TA081-083-30-37	8.1-8.3	32	0.75	5.0	37	37	12	3700	HA2
TA085-105-31-17	8.5-10.5	32	1.0	3.0	17		12	250	HJ5
TA085-110-30-29	8.5-11	30	0.5	3.0	30	38	12	900	HD7
TA085-110-30-35	8.5-11	30	0.75	5.0	36	45	12	4500	HA2B
TA085-110-30-38	8.5-11	30	0.75	5.0	38.5	46	12	7500	HA3
TA099-107-41-40	9.9-10.7	42	1.5		40		12	7000	HA2
TA100-120-15-10	10-12	15	0.5	2.5	10		12	100	HG2
TA100-160-32-20	10-16	32	1.0	5	20		12	450	HH5
TA120-155-45-31	12-15.5	45	0.5	5.0	31	40	12	1800	HA1
TA125-160-37-25	12.5-16	37	0.5	5.0	25(Psat)		12	500	HA7
TA130-155-49-32	13-15.5	49	0.5	5.0	33	43	12	2400	HA1
TA160-180-25-27	16-18	25	0.5	3.5	27		12	800	HD7
TA160-180-50-10	16-18	50		2.7	10		12	280	HD7
TA165-182-32-32	16.5-18.2	32	1.75	9.0	32	33	12	3500	

*Specification shown above are the typical value

II. Low Noise Amplifier

Product No.	Freq. (GHz)	Gain (dB Min)	G.O.F (+/-dB)	N.F (dB)	P-1dB (dBm Min)	IP3 (dBm)	Voltage (V)	Current. (mA)	Case
TA001-005-13-20	0.01-0.5	13	0.3	4.0	20		12	90	HZ7
TA001-005-25-16	0.01-0.5	25	0.5	3.8	16		12	100	HZ8
TA001-010-10-20	0.05-1	10	0.5	5.5	20		12	90	HZ7
TA001-010-20-15	0.05-1	20	0.75	5.0	15	23	12	140	HZ9
TA001-010-24-27	0.05-1	24	0.75	5.0	27	36	12	400	HZ9
TA005-020-13-24	0.5-2	14	0.4	2.7	24	34	12	180	HS3
TA005-020-15-15	0.5-2	17	0.4	1.8	15	25	12	70	HS3
TA005-020-15-20	0.5-2	17	0.4	2.3	20	30	12	150	HS3
TA005-020-27-24	0.5-2	30	0.6	2.7	24	34	12	240	HS3
TA005-020-30-15	0.5-2	33	0.6	1.8	15	25	12	120	HS3
TA005-020-30-20	0.5-2	33	0.6	2.3	20	30	12	200	HS3
TA005-020-42-24	0.5-2	46	0.8	2.7	24	34	12	300	HS4
TA005-020-45-15	0.5-2	50	0.8	1.8	15	25	12	180	HS4
TA005-020-45-20	0.5-2	50	0.8	2.3	20	30	12	250	HS4
TA005-025-10-24	0.5-2.5	10	0.5	6.0	24		12	150	HZ7
TA005-025-14-19	0.5-2.5	14	0.5	4.0	19		12	75	HZ7
TA005-025-23-24	0.5-2.5	23	0.75	4.0	24		12	240	HZ9
TA005-025-25-20	0.5-2.5	25	0.75	3.5	20		12	160	HZ9
TA008-055-20-24	0.8-5.5	20	0.5		25	34	12	750	HC6
TA010-020-15-15	1-2	16	0.5	3.8	17		12	100	HG2
TA010-180-30-15	1-18	31	1.5	5.0	16		12	230	HG4
TA020-060-00-16	2-6			3.5	16(Psat)		12	450	HO5
TA020-060-11-10	2-6	12	0.4	2.3	10	20	12	80	HG3
TA020-060-12-21	2-6	13	0.4	4.5	21	31	12	110	HG3
TA020-060-12-23	2-6	13	0.4	5.4	23	33	12	180	HG3
TA020-060-20-27	2-6	22	0.6	5.4	27	37	12	420	HG3
TA020-060-22-13	2-6	24	0.6	2.3	13	23	12	80	HG3

TA020-060-24-21	2-6	26	0.6	3.6	21	31	12	150	HG3
TA020-060-24-23	2-6	26	0.6	4.5	23	33	12	250	HG3
TA020-060-30-27	2-6	33	0.8	5.4	27	37	12	480	HG3
TA020-060-30-30	2-6	33	0.6	4.5	30	40	12	1000	HC4
TA020-060-30-33	2-6	33	0.6	4.5	33	43	12	1800	HA1
TA020-060-30-35	2-6	33	0.8	4.5	35	45	12	4000	HA2
TA020-060-35-13	2-6	39	0.8	2.3	13	23	12	120	HG3
TA020-060-35-21	2-6	39	0.8	3.6	21	31	12	200	HG3
TA020-060-35-23	2-6	39	0.8	4.5	23	33	12	300	HG3
TA020-060-36-34	2-6	36	1.5	6	34		12	2200	HA2
TA020-060-40-30	2-6	44	0.8	4.5	30	40	12	1100	HC4
TA020-060-40-33	2-6	44	0.8	4.5	33	43	12	1900	HA1
TA020-060-40-35	2-6	44	1.0	4.5	35	45	12	4200	HA2
TA020-100-30-15	2-10	30		4.0	15		12	160	HG5
TA020-180-20-10	2-18	20		4.5	13		12	150	HG3
TA020-180-28-16	2-18	28	1.5	4.5	16		12	250	HD4
TA021-035-32-15	2.1-3.5	32	0.5	2.2	15	27	12	275	HC51
TA024-060-23-32	2.4-6	23	1.5	6.0	33		12	1700	HA16
TA025-035-31-33	2.5-3.5	32	0.7	4.8	33.5		12	1500	HA1
TA028-048-36-17	2.8-4.8	36	0.5	5.0	17		12	200	HO4
TA031-035-30-30	3.1-3.5	30	0.7	4.5	30(Psat)		12	900	HW74
TA031-035-40-10	3.1-3.5	40	0.3	1.1	15		12	150	HC6
TA040-060-40-40	4-6	40	1.0	5.0	39		12	8000	HA2
TA053-059-22-10	5.3-5.9	22	0.5	1.0	10	20	12	90	HG2
TA053-059-35-33	5.3-5.9	35	0.5	4.5	33	42	12	1200	HA1
TA053-059-38-36	5.3-5.9	38	0.5	4.5	36	45	12	2400	HA1
TA053-059-41-38	5.3-5.9	41	0.5	4.5	39	48	12	4700	HA1
TA053-059-41-40	5.3-5.9	46		5.0	40(Psat)		12	6500	HA6
TA059-069-45-32	5.9-6.9	45	0.5	4.0	33	42	12	1400	HA1
TA060-120-10-21	6-12	11	0.4	4.1	21	31	12	110	HG3
TA060-120-11-10	6-12	12	0.4	2.3	10	20	12	50	HG3
TA060-120-15-27	6-12	17	0.6	5.0	27	37	12	400	HG3
TA060-120-20-21	6-12	22	0.6	3.6	21	31	12	180	HG3
TA060-120-22-15	6-12	24	0.6	2.3	15	25	12	120	HG3
TA060-120-25-27	6-12	28	0.8	5.0	27	37	12	450	HG4
TA060-120-30-21	6-12	33	0.8	3.6	21	31	12	250	HG4
TA060-120-35-15	6-12	39	0.8	2.3	15	25	12	180	HG4
TA060-120-35-27	6-12	39	1.0	5.0	27	37	12	500	HG5
TA060-120-35-30	6-12	39	1.0	4.5	30	40	12	1300	HA1
TA060-120-35-33	6-12	39	1.2	5.4	33	43	12	2500	HA2
TA060-120-45-30	6-12	50	1.2	4.5	30	40	12	1400	HA1
TA060-180-10-10	6-18	11	0.4	2.7	10	20	12	50	HG3
TA060-180-10-15	6-18	11	0.4	3.6	15	25	12	80	HG3
TA060-180-15-20	6-18	17	0.6	4.5	20	30	12	160	HG3
TA060-180-20-10	6-18	22	1.2	2.7	10	20	12	100	HG3
TA060-180-20-15	6-18	22	1.0	3.6	15	25	12	150	HG3
TA060-180-25-20	6-18	28	0.8	4.5	20	30	12	200	HG5
TA060-180-25-24	6-18	28	1.0	5.4	24	34	12	350	HG5

TA060-180-28-20	6-18	30	2.0	3.5	21		12	490	HO7
TA060-180-28-27	6-18	31	1.5	5.4	27	37	12	800	HG6
TA060-180-30-15	6-18	33	2.0	2.7	15	25	12	180	HG4
TA060-180-30-20	6-18	33	2.0	3.6	20	30	12	250	HG4
TA060-180-30-28	6-18	30	1.0	3.5	28.5		12	1300	HD7
TA060-180-35-20	6-18	39	2.0	4.5	20	30	12	250	HG5
TA060-180-35-24	6-18	39	2.0	5.4	24	34	12	400	HG5
TA060-180-38-27	6-18	42	2.0	5.4	27	37	12	900	HG7
TA075-180-24-12	7.5-18	24	1.0	4.5	12	22	12	180	
TA080-120-41-30	8-12	41	1.0	3.5	30		12	1200	HA1
TA080-180-15-15	8-18	17	1.0	4.0	17		12	180	HG4
TA085-105-31-17	8.5-10.5	32	1.0	3.0	17		12	250	HJ5
TA085-110-30-29	8.5-11	30	0.5	3.0	30	38	12	900	HD7
TA085-110-30-35	8.5-11	30	0.75	5.0	36	45	12	4500	HA2
TA085-110-30-38	8.5-11	30	0.75	5.0	38.5	46	12	7500	HA3
TA100-120-15-10	10-12	15	0.5	2.5	10		12	100	HG2
TA100-160-32-20	10-16	32	1.0	5.0	20		12	450	HH5
TA120-155-45-31	12-15.5	45	0.5	5.0	31	40	12	1800	HA1
TA125-160-37-25	12.5-16	37	0.5	5.0	25(Psat)		12	500	HP7
TA160-180-25-27	16-18	25	0.5	3.5	27		12	800	HD7
TA160-180-50-10	16-18	50		2.7	10		12	280	HD7

*Specification shown above are the typical value

III. Limiting Amplifier

Product No.	Freq. (GHz)	Gain (dB Min)	Pin (dB Max)	N.F. (dBm Min)	Psat (dBm Min)	Psat Devision (dB)	12V DC Current (mA Max)	Case
TA010-020-40-LA	1-2	40	-20~+10	2.5	19	1	200	HO4
TA010-020-60-LA	1-2	60	-40~+10	2.5	19	1	250	HO5
TA020-040-40-LA	2-4	40	-20~+10	3.0	19	1	200	HO4
TA020-040-60-LA	2-4	60	-40~+10	3.0	19	1	250	HO5
TA020-060-40-LA	2-6	40	-20~+10	4.0	15	1	250	HO3
TA020-060-60-LA	2-6	30	-40~+10	4.0	15	1	350	HO4
TA020-060-80-LA	2-6	80	-61~+10	4.0	15	1	550	HO5
TA020-080-40-LA	2-8	40	-20~+20	5.0	19	1	300	HO5
TA040-080-40-LA	4-8	40	-20~+20	4.0	19	1	250	HD6
TA040-080-60-LA	4-8	60	-40~+20	4.0	19	1	300	HD7
TA060-120-40-LA	6-12	40	-20~+20	4.0	19	1	300	HD6
TA060-180-40-LA	6-18	40	-20~+20	4.0	19	1	300	HD6

*Specification shown above are the typical value

IV. Limiting Amplifier

Product No.	Freq. (GHz)	Input Freq. (GHz)	Output Freq. (GHz)	Input Power (dBm)	Output Power (dBm Min)	Harmonic (dBc Min)	12~15V DC Condition (mA Max)	Case
TC7201	0	5.25~5.33	10.52~10.66	10	20	-20	250	HO5
TC7202	0	5.25~5.33	15.75~15.99	10	20	-20	350	HO5
TC7203	0	5.25~5.33	20.12~21.32	10	20	-20	350	HO9
TC7301	0	8.80~9.90	17.62~19.80	10	20	-20	250	HO5

*Specification shown above are the typical value