

# Low Noise Amplifiers

## Low Noise Figure Performance as Low as 1 dB

APITech offers a complete line of the highest performance, lowest noise figure amplifiers the industry has to offer.

APITech offers many non-standard package options and can customize our designs to meet your unique project requirements.

### Fully Customizable Without Additional NRE

- Ultra Low Noise Performance
- Fully Customizable
- Multiple Package Options
- Fully Matched, No External Circuitry Needed
- Output Power to 1/2 watt
- MIL-STD Screening Available



Model #	Frequency Range MHz	Gain dB	Noise Figure dB	P1dB Comp (dBm)	3rd Order Intercept dBm	2nd Order Intercept dBm	DC Power V/mA
TR9756	1200 - 1700	27	1	15	26	40	5 / 60
TR9771	1200 - 1700	27	1	15	26	40	15 / 60
TR9755	800 - 1200	26	1	14	25	40	5 / 62
TR9770	800 - 1200	25	1	14	25	40	15 / 62
QBH-2001	1800 - 2200	14	1	17	32	36	5 / 66
QBH-2003	800 - 960	20	1	19	30	40	5 / 66
WN3127	1000 - 1500	18	1.2	21.5	33	43	15 / 115
TM9270	500 - 2500	17.5	1.3	20	33	47	5 / 65
QBHA-853	100 - 300	33.5	1.3	22	35	40	15 / 100
TM6162	10 - 100	12.5	1.4	16	32	46	15 / 13.5
TM7111	10 - 100	12.5	1.4	17	33	47	15 / 14
TM7270	10 - 250	8.3	1.4	13	30	50	15 / 15
TM7570	10 - 250	8	1.4	13	30	50	5 / 15
TM3099	200 - 800	15	1.4	15	25	35	5 / 70
TM7208	5 - 250	22.5	1.4	3	16	13	15 / 10

Continued to page 2

# Low Noise Amplifiers

Low Noise Figure Performance as Low as 1 dB

Model #	Frequency Range MHz	Gain dB	Noise Figure dB	P1dB Comp (dBm)	3rd Order Intercept dBm	2nd Order Intercept dBm	DC Power V/mA
TM3218	500 - 2500	16.5	1.4	14	27	37	5 / 35
TM6118	10 - 200	10	1.5	18	33	55	15 / 18
TM7170	10 - 250	8.5	1.5	10	26	38	15 / 11.5
TM3085	100 - 500	11.5	1.5	19.5	31	43	15 / 90
TM6270	1200 - 1700	16	1.5	13	27	36	15 / 35
TM3074	1400 - 1800	16	1.5	17	28	38	5 / 63
TM3056	225 - 400	18.5	1.5	15	33	41	15 / 46
TM9705	225 - 400	15	1.5	23	34	44	15 / 90
TM5118	3 - 100	16.3	1.5	6.5	19	25	15 / 21
TM9092	30 - 2200	18	1.5	21.5	37	50	5 / 100
TM7271	5 - 250	18	1.5	0.5	10	13	15 / 9
TM3082	50 - 200	13	1.5	15	27	3	5 / 35
TR9757	1700 - 2400	23	1.5	15	26	40	5 / 60
QBH-117	5 - 100	16.5	1.5	4.5	17	24	15 / 11
QBH-8780	10 - 150	8.2	1.5	15	33	13	5 / 25
QBH-8973	10 - 150	8.2	1.5	15	33	13	5 / 25
TM5841	5 - 100	19	1.5	4.5	17	24	15 / 13
TM7205	10 - 200	20	1.6	14	21	26	5 / 18
TM6143	5 - 500	15.7	1.6	7.5	20	28	15 / 14.5
BXMP1035	500 - 3000	38	1.6	24.5	40	50	15 / 220
TR3054	40 - 100	24	1.65	10.5	20	30	15 / 45
TN9420	2000 - 4300	16	1.7	22	33	40	12 / 90
TN9393	300 - 3200	14.8	1.7	15	31	42	15 / 55
TM6181	10 - 400	8.5	1.7	8	23	40	15 / 11
TM3081	10 - 500	13	1.7	15	27	35	5 / 35
TM3083	10 - 500	13	1.7	15	27	35	15 / 35
TM3091	15 - 200	14	1.7	23.5	36	43	10 / 85
TM9420	2000 - 4300	16	1.7	22	33	40	12 / 90

Continued from page 1 (Typical Performance at 25°C)

# Low Noise Amplifiers

Low Noise Figure Performance as Low as 1 dB

Model #	Frequency Range MHz	Gain dB	Noise Figure dB	P1dB Comp (dBm)	3rd Order Intercept dBm	2nd Order Intercept dBm	DC Power V/mA
TM9393	300 - 3200	14.8	1.7	15	31	42	15 / 55
TM6712	5 - 500	33	1.7	9	20	36	12/ 35
TM6719	5 - 500	33	1.7	9	20	36	15 / 35
QBH-838	50 - 500	15	1.7	1	12	16	15 / 12
TM5107	10 - 550	15	1.75	2	13	16	15 / 9
TM3024	100 - 200	16.5	1.75	13	27	38	15 / 23
TM3090	15 - 200	14	1.75	19	35	47	10 / 55
TM7371	5 - 250	18	1.75	2	14	15	15 / 9
TM3066	5 - 300	29	1.75	18	32	39	15 / 80
TM7101	10 - 150	27.5	1.8	16.5	30	35	15 / 20
TM6610	10 - 300	8	1.8	20	36	46	10 / 25
TM6670	10 - 300	8	1.8	21	36	46	15 / 25
TM3023	100 - 200	29	1.8	12.5	24	29	15 / 15
TM3005	100 - 450	16	1.8	13	27	39	15 / 25
TM7112	10 - 150	27.5	1.8	16.5	30	35	12/ 20
TM3101	1200 - 1700	30	1.8	20	30	40	5 / 105
TM3109	20 - 500	15	1.8	26	40	55	15 / 160
TM3004	225 - 400	22.8	1.8	6.5	18	20	15 / 15
TM7211	30 - 200	8.5	1.8	20	40	55	15 / 30
TM7212	30 - 200	8.5	1.8	20	40	55	12 / 30
TM7288	5 - 250	22	1.8	7.5	20	23	15 / 18
TR6535	10 - 400	32.5	1.8	22	37	48	15 / 90
TR5853	100 - 300	33.5	1.8	22.5	36	45	15 / 87
TR3044	200 - 300	32	1.8	21	33	45	15 / 90
BXHF1057	2000 - 8000	16	1.8	17	23	30	12 / 70
BXHF1059	2000 - 8000	32	1.8	17	23	30	12 / 135
QB-917	4000 - 8000	16	1.8	17	23	30	12 / 55
QB-921	4000 - 8000	32	1.8	17	23	30	12 / 110

Continued from page 2  
(Typical Performance at 25°C)

# Low Noise Amplifiers

Low Noise Figure Performance as Low as 1 dB

Model #	Frequency Range MHz	Gain dB	Noise Figure dB	P1dB Comp (dBm)	3rd Order Intercept dBm	2nd Order Intercept dBm	DC Power V/mA
QB-922	4000 - 8000	40	1.8	20	25	33	12 / 220
BXHF1060	4000 - 8000	40	1.8	20	25	31	15 / 220
WNMP1231	20 - 500	14	1.9	27	40	75	15 / 115
QBH-855	10 - 100	39	1.9	15	27	40	15 / 35
TM7370	20 - 250	8.5	1.9	23	40	49	15 / 45
TM7104	5 - 150	24	1.9	12	25	31	5 / 20
TM9754	900 - 2500	25	1.9	15.5	26	45	5 / 75
QBH-118	3 - 100	16.3	1.9	11	26	38	15 / 21
QBH-845	3 - 100	17	1.9	16	29	43	15 / 30
BXMP1231	20 - 500	14	1.9	27	40	75	15/115
QBH-8981	30 - 200	8.1	1.9	21	40	55	15 / 28
WN6160	100 - 600	28	2	17	32	46	15 / 65
WNMP1232	200 - 500	19	2	30	38	48	15/180
TN6236	2800 - 3600	14	2.0	25	40	48	15 / 170
TM5125	10 - 100	20.5	2	24	40	52	15 / 80
TM5325	10 - 100	20.5	2	24	40	52	12 / 85
TM6112	10 - 200	16.4	2	14.5	28	38	15 / 27
TM6683	10 - 250	38	2	-1	10	9	5 / 14
TM7207	10 - 300	18	2	16	31	42	15 / 33
TM6411	10 - 400	16	2	10	23	32	5 / 15
TM5104	10 - 500	12	2	15	32	46	15 / 35
TM6544	10 - 500	12	2	15	32	46	15 / 35
TM3032	100 - 400	16.5	2	9.5	22	29	15 / 16
TM3037	1030 - 1090	13.5	2	19.5	31	45	5 / 78
TM3102	1200 - 1700	30	2	20	30	40	15 / 110
TM7102	20 - 150	24.5	2	17	29	40	15 / 31
TM7221	20 - 200	28.5	2	18.5	33	38	15 / 29

Continued from page 3 (Typical Performance at 25°C)