

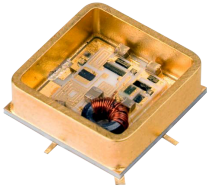
Low Phase Noise Amplifiers

Ultra Low Phase Noise Performance as Low as -181 kHz at 10 kHz



Customization Without Additional NRE

- Guaranteed Low Phase Noise Performance
- Fully Customizable
- Multiple Package Options
- Fully Matched, No External Circuitry Needed
- MIL-STD Screening Available



- API offers a complete line of the highest performance, guaranteed low phase noise amplifiers the industry has to offer.
- We offer many non-standard package options and can customize our designs to meet your unique project requirements.
- Learn more on the API Technologies website: micro.apitech.com/low-phase-noise-amplifiers

Model #	Frequency MHz	Gain dB	Noise Figure dB	P1dB dBm	IP3 / IP2 dBm	DC Power V/mA	Phase Noise (dBc/Hz) 100 Hz	Phase Noise (dBc/Hz) 1 kHz	Phase Noise (dBc/Hz) 10 kHz	Phase Noise (dBc/Hz) 100 kHz
QBH-5817PM	10 - 1500	13.5	6	20	32 / 44	15 / 100	-163	-175	-181	-181
QBH-5695PM	10 - 640	13	6	27	42 / 49	15 / 180	-165	-175	-180	-182
QBH-1424PM	10 - 1000	13	5.5	26	32 / 39	15 / 155	-169	-177	-180	-181
TM7211PM	30 - 200	8.5	1.8	20	40 / 55	15 / 30	-172	-178	-180	-181
TM7212PM	30 - 200	8.5	1.8	20	40 / 55	12 / 30	-172	-178	-180	-181
TM7310PM	10-200	8.5	1.8	20	40 / 55	10/38	-172	-178	-180	-181
QBH-1423PM	10 - 1000	13	6	28	34 / 40	15 / 195	-160	-175	-180	-180
QBH-1505PM	10 - 1000	13	6	28	34 / 40	12 / 195	-160	-175	-180	-180
TM3072PM	10 - 300	13.5	5	27.5	44 / 60	15 / 180	-165	-175	-180	-180
TM5122PM	10 - 500	17	4.2	20	30 / 38	15 / 60	-157	-170	-179	-180
TM6659PM	10 - 700	10.5	6.5	22	36 / 46	15 / 88	-165	-175	-179	-180
TM3098PM	10 - 300	13.5	5	30	45 / 63	15 / 240	-160	-170	-178	-180
TM9105PM	10 - 1000	12.5	4.5	21	35 / 45	15 / 90	-164	-174	-178	-180
TM9510PM	10 - 1000	12.5	4.5	21	35 / 45	10 / 145	-164	-174	-178	-180
TM9512PM	10 - 1000	13	4.5	21	35 / 45	12 / 90	-164	-174	-178	-180

CONTINUED ON PAGE TWO

Model #	Frequency MHz	Gain dB	Noise Figure dB	P1dB dBm	IP3 / IP2 dBm	DC Power V/mA	Phase Noise (dBc/Hz) 100 Hz	Phase Noise (dBc/Hz) 1 kHz	Phase Noise (dBc/Hz) 10 kHz	Phase Noise (dBc/Hz) 100 kHz
TM5154PM	200 - 1200	12.8	2.6	8	21 / 31	15 / 23	-162	-175	-178	-178
TM5155PM	5 - 300	15	5	22	37 / 48	15 / 85	-162	-175	-178	-178
TM5171PM	20 - 150	13.5	6.5	27	39 / 50	15 / 105	-166	-175	-178	-178
WNMP1008PM	50 - 250	17	5.6	33.5	43 / 63	15 / 600	-160	-167	-177	-182
TM6012PM	5 - 500	14.5	4.6	23	36 / 50	12 / 88	-160	-175	-177	-180
TM6509PM	5 - 500	14.5	4.6	23	36 / 50	15 / 88	-156	-175	-177	-180
TM9119PM	10 - 1000	9	8.5	21	34 / 40	15 / 100	-165	-172	-177	-179
TM6155PM	300 - 1000	12.5	4	19.5	33 / 45	15 / 50	-160	-174	-177	-177
TM5125PM	10 - 100	20.5	2	24	40 / 52	15 / 80	-162	-175	-176	-176
TM5125PM	10 - 100	20.5	2	24	40 / 52	15 / 80	-162	-175	-176	-176
TM5138PM	5 - 150	15.5	3.1	23	38 / 46	15 / 90	-158	-163	-176	-176
TM5834PM	10 - 100	19.7	3.5	27.5	40 / 52	15 / 135	-162	-172	-176	-176
TM6121PM	20 - 200	10	2.5	20	38 / 55	15 / 60	-155	-169	-175	-179
TM5136PM	10 - 200	20	4	21	33 / 45	15 / 70	-165	-170	-175	-178
TM5137PM	10 - 200	12.7	3.5	22.5	39 / 53	15 / 75	-165	-170	-175	-178
TM5338PM	5 - 150	15	2.7	25	36 / 44	12 / 88	-162	-172	-175	-178
TM6134PM	20 - 200	14.3	4	26	39 / 54	15 / 90	-165	-173	-175	-178
TM7279PM	5 - 250	14	4.5	23	36 / 46	15 / 88	-165	-175	-175	-178
TM5103PM	5 - 300	11.5	5	23	36 / 45	15 / 85	-160	-168	-175	-177
TM5325PM	10 - 100	20.5	2	24	40 / 52	12 / 85	-170	-175	-175	-176
TM7278PM	5 - 300	13.5	4	21.5	36 / 49	15 / 65	-158	-174	-175	-176
TM3041PM	10 - 300	16.5	2.8	24	38 / 50	15 / 80	-160	-175	-175	-175
TM6010PM	5 - 500	14.5	4.6	23	36 / 50	10 / 145	-156	-170	-175	-175
TM6345PM	10 - 1100	12.3	3	17	33 / 46	15 / 45	-160	-172	-175	-175
TM7347PM	5 - 300	13.5	2	16	32 / 44	15 / 45	-160	-173	-175	-175
TM5817PM	10 - 1500	14	6	23	32 / 44	15 / 98	-159	-169	-174	-175
TM6545PM	10 - 500	11.5	4	20.5	36 / 48	15 / 60	-156	-170	-174	-175
TM5152PM	10 - 300	17	3.5	20	33 / 47	15 / 55	-166	-172	-174	-174
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Model #	Frequency MHz	Gain dB	Noise Figure dB	P1dB dBm	IP3 / IP2 dBm	DC Power V/mA	Phase Noise (dBc/Hz) 100 Hz	Phase Noise (dBc/Hz) 1 kHz	Phase Noise (dBc/Hz) 10 kHz	Phase Noise (dBc/Hz) 100 kHz
TM6118PM	10 - 200	10	1.5	18	33 / 55	15 / 18	-152	-165	-174	-174
TM6131PM	10 - 500	10.3	4.5	20	37 / 50	15 / 62	-153	-172	-173	-177
TM6442PM	20 - 400	14	4.5	22	37 / 51	15 / 62	-150	-169	-173	-175
TM6547PM	10 - 500	12.5	4	19	35 / 48	15 / 55	-160	-168	-173	-175
TM6603PM	5 - 500	10	5.5	15.5	30 / 42	24 / 50	-163	-172	-173	-175
TM6615PM	5 - 500	10	5.5	15.5	30 / 42	15 / 50	-163	-172	-173	-175
TM5126PM	5 - 500	15	3	17	32 / 42	15 / 50	-165	-166	-173	-174
TM6441PM	20 - 400	14.5	3.5	16	31 / 48	15 / 32	-153	-168	-173	-174
TM6487PM	10 - 400	15.5	3.2	17.5	32 / 45	15 / 33	-152	-163	-173	-174
TM6670PM	10 - 250	8	1.8	20	36 / 46	15 / 25	-169	-171	-172	-176
TM9106PM	5 - 1000	12	4.8	19	27 / 32	15 / 70	-162	-168	-172	-175
TM6515PM	5 - 500	12.5	4.5	16.5	31 / 43	15 / 50	-160	-170	-172	-174
TM5119PM	5 - 500	15.5	2.3	16	32 / 44	15 / 30	-155	-170	-172	-173
TM5150PM	10 - 300	20	2.5	18	32 / 43	15 / 47	-162	-170	-172	-173
TM9137PM	10 - 2000	9.5	6.5	15.5	28 / 38	15 / 45	-160	-168	-172	-173
TM9167PM	10 - 800	12.5	4.5	15.5	30 / 45	15 / 32	-153	-170	-172	-173
TM9333PM	5 - 1000	11.5	5	16	30 / 44	15 / 48	-166	-172	-172	-173
TM7207PM	10 - 300	18	2	16	31 / 42	15 / 33	-164	-170	-172	-172
TM7277PM	5 - 250	10.5	4	24	41 / 48	15 / 70	-150	-168	-171	-175
TM9318PM	10 - 1000	14.7	3.8	16	30 / 42	15 / 47	-155	-165	-171	-173
TM9118PM	10 - 800	14.7	4.5	16	26 / 33	15 / 45	-160	-168	-171	-171
TM3110PM	10 - 200	15.5	3.5	30	45 / 63	15 / 240	-155	-165	-170	-175
TM3115PM	10-1400	13	8	27	30 / 35	15/195	-153	-167	-170	-175
TM6544PM	10 - 500	12	2	15	32 / 46	15 / 35	-157	-168	-170	-174
TM6577PM	5 - 500	16.5	3.5	17	32 / 42	15 / 50	-157	-170	-170	-172
QBH-1401PM	10 - 500	14.5	3.9	12	22 / 34	15 / 44	-160	-168	-170	-170
TM4002PM	10 - 500	20	4	19.5	35 / 45	15 / 80	-155	-165	-170	-170
TM4003PM	10 - 500	20	4	19.5	35 / 45	7 / 80	-155	-165	-170	-170
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Model #	Frequency MHz	Gain dB	Noise Figure dB	P1dB dBm	IP3 / IP2 dBm	DC Power V/mA	Phase Noise (dBc/Hz) 100 Hz	Phase Noise (dBc/Hz) 1 kHz	Phase Noise (dBc/Hz) 10 kHz	Phase Noise (dBc/Hz) 100 kHz
TM6513PM	5 - 500	17	3.8	16.5	29 / 41	24 / 50	-163	-170	-170	-170
TM9723PM	10 - 1000	13	4	27	40 / 48	15 / 185	-150	-159	-169	-178
TM7379PM	5 - 200	14	4.5	23	38 / 47	12 / 88	-155	-165	-169	-174
TM6507PM	10 - 500	15.5	4	24	35 / 40	15 / 110	-152	-165	-168	-175
TM6559PM	5 - 500	11.5	5.5	22	36 / 46	15 / 88	-161	-167	-168	-174
TM6558PM	5 - 500	12	4.8	19	36 / 48	15 / 65	-158	-164	-168	-173
TM9138PM	10 - 2000	7.5	6	19	33 / 46	15 / 65	-152	-161	-168	-172
TM6533PM	5 - 500	16.5	3.5	17	32 / 42	15 / 50	-165	-167	-168	-171
TM9128PM	10 - 1500	11.5	4.5	15	29 / 43	15 / 40	-152	-160	-168	-170
TM6518PM	5 - 500	14	5	25	33 / 40	15 / 125	-160	-167	-167	-174
TM5124PM	20 - 200	20.5	2.5	20	34 / 44	15 / 53	-165	-166	-166	-170
TM6162PM	10 - 100	12.5	1.4	16	32 / 46	15 / 13.5	-160	-165	-166	-170
TM6519PM	10 - 500	14.3	5.5	19	34 / 40	15 / 70	-155	-165	-166	-170
WN6160PM	100 - 600	28	2	17	32 / 46	15 / 65	-160	-165	-166	-170
TR6877PM	1000-1500	26	5	27	40 / 50	15/245	-145	-160	-166	-170
TM6581PM	20 - 500	22	3.5	16	28 / 40	15 / 27	-162	-165	-166	-166
TM9329PM	10 - 1500	9	6.5	20	30 / 36	15 / 90	-147	-157	-165	-173
TM9126PM	10 - 1500	20.5	5	15	28 / 45	15 / 64	-148	-160	-165	-165
TN3123PM	3000-5000	10	3.5	26	40 / 50	15/175	-140	-150	-165	-165
TM9518PM	10 - 1000	14.7	4	16	29 / 41	15 / 44	-145	-155	-164	-168
TM5149PM	5 - 150	23.5	3	18	33 / 37	15 / 35	-158	-163	-164	-164
TM7101PM	10 - 150	27.5	1.8	16.5	30 / 35	15 / 20	-155	-162	-164	-164
TM6526PM	10 - 500	28	3.5	21	35 / 50	15 / 93	-153	-161	-163	-164
TM7382PM	20 - 250	18	4	17.5	29 / 31	15 / 45	-156	-161	-162	-166
TM6191PM	100 - 600	23.5	2.5	21.5	36 / 52	15 / 95	-140	-152	-161	-169
TM9524PM	10 - 1500	22	4.3	13	23 / 31	15 / 56	-142	-153	-161	-163
TM9327PM	10 - 2000	15	6.5	17.5	29 / 38	15 / 108	-145	-152	-160	-168

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(Typical Performance at 25C)

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