

Full Performance Amplifiers - BiPolar Silicon Transistor

Many available in: 4-Pin TO-8 (TM); 4-PIN TO-8B (TR); 0.5" sq. Flatpack (FP); 0.450" sq. Surface Mount Package (TN); 0.375" sq. Surface Mount Package (PN); Connectorized Housing (BX). **Non-Hermetic reduced cost configurations available.**

Model	Frequency Range (MHz)		Gain (dB)		Noise Figure (dB)		Power Output @ 1dB Comp pt. (dBm)		IP3/IP2 Typ (dBm)	VSWR Max In/Out	Power Typ (Vdc) (mA)	
	Typ	Min	Typ	Min	Typ	Max	Typ	Min			Typ	Min
TM6162	10	100	12.7	11.5	1.4	2.0	+16.0	+14.0	+32/46	2.0:1	+15	11
TM7111	10	100	12.5	11.0	1.4	2.0	+17.0	+15.5	+33/47	2.0:1	+15	14
TM5118	3	100	16.3	15.5	1.5	2.0	+ 6.5	+ 5.5	+19/25	2.5:1	+15	21
TM5125	10	100	20.5	19.5	2.0	3.0	+24.0	+22.5	+40/52	2.2:1	+15	80
TM5325	10	100	20.5	19.5	2.0	3.0	+24.0	+22.5	+40/52	2.2:1	+12	85
TM5834	10	100	19.7	18.7	3.5	4.5	+27.5	+26.0	+40/52	2.0:1	+15	135
TM7101	10	150	27.5	26.0	1.8	2.5	+16.5	+15.0	+30/35	2.0:1	+15	20
TM7102	20	150	24.5	22.5	2.0	3.0	+17.0	+16.0	+29/40	2.0:1	+15	31
TM7103	10	150	26.5	25.0	2.3	2.8	+ 9.5	+ 8.0	+23/28	2.0:1	+ 5	16
TM5138	5	150	15.0	14.0	2.7	3.5	+24.5	+22.0	+38/46	2.0:1	+15	88
TM5338	5	150	15.0	14.0	2.7	3.5	+25.0	+23.0	+36/44	2.0:1	+12	88
TM5149	5	150	23.5	22.5	3.0	3.2	+18.0	+17.0	+33/37	2.0:1	+15	35
LN7253	5	200	32.0	28.0	3.0	4.0	0.0	- 2.0	+14/23	2.0:1	+ 5	30
TM7210	10	200	9.0	8.0	1.3	2.0	+14.0	+12.5	+31/48	2.0:1	+15	15
TM6118	10	200	10.0	9.4	1.5	2.0	+18.0	+16.5	+33/55	2.0:1	+15	18
TM7205	10	200	20.0	19.0	1.6	2.2	+14.0	+12.0	+21/26	2.0:1	+ 5	18
TM7211	30	200	8.5	7.5	1.8	3.0	+20.0	+19.0	+40/55	2.0:1	+15	40
TM6514	30	200	16.5	15.0	2.0	3.0	- 2.0	- 3.0	+11/11	2.0:1	+15	8
TM7221	20	200	28.5	27.0	2.0	3.0	+18.5	+15.0	+33/38	2.0:1	+15	29
TM7380	10	200	27.5	26.0	2.2	3.0	+17.0	+15.0	+15/31	2.0:1	+15	28
TM7286	10	200	28.0	26.0	2.5	3.5	+ 8.0	+ 7.0	+20/28	2.0:1	+ 5	21
TM5304	5	200	19.5	18.5	2.5	3.0	+10.5	+ 9.5	+25/33	2.0:1	+15	24
TR7215	5	200	31.5	30.0	2.5	4.0	+13.0	+10.0	+26/39	1.5:1	+15	58
TM5124	20	200	20.5	19.5	2.5	3.5	+20.0	+18.0	+34/44	1.6:1	+15	53
TM6121	20	200	10.0	9.4	2.5	4.0	+20.0	+18.0	+38/55	2.0:1	+15	60
TM7222	20	200	29.0	27.5	2.9	4.0	+20.5	+18.0	+32/38	2.0:1	+15	47
TM5136	10	200	20.0	19.0	3.0	4.0	22.0	+20.0	+36/46	2.0:1	+15	67
TM7272	10	200	14.7	14.0	3.0	5.0	+14.0	+12.0	+29/41	1.3:1	+ 5	35
TM6134	20	200	14.3	12.5	4.0	6.0	+26.0	+23.0	+39/54	2.5:1	+15	90
TM7379	5	200	14.0	12.5	4.5	6.0	+23.0	+21.0	+38/47	2.0:1	+12	88
TM6117	5	250	8.2	7.0	1.3	2.0	+10.0	+ 9.0	+28/43	2.0:1	+15	12
TM7208	5	250	22.5	21.0	1.4	2.0	+ 3.0	0.0	+16/13	2.0:1	+15	10
TM7270	10	250	8.3	7.0	1.4	2.5	+13.0	+11.0	+30/50	1.8:1	+15	15
TM7271	5	250	18.0	16.0	1.5	2.8	+ 0.5	- 1.0	+13/13	2.0:1	+15	9
TM7170	10	250	8.5	7.5	1.5	2.5	+10.0	+ 9.0	+26/38	2.0:1	+15	12
TM7371	5	250	18.0	16.0	1.8	2.5	+ 2.0	+ 1.0	+14/15	2.0:1	+15	9
TM7288	5	250	22.0	21.0	1.8	2.2	+ 7.5	+ 6.5	+20/23	2.0:1	+15	18
TM6670	10	250	8.0	6.0	1.8	3.0	+20.0	+18.0	+36/46	2.5:1	+15	25
TM7370	20	250	8.5	7.3	1.9	3.4	+23.0	+20.0	+40/49	2.0:1	+15	45
TM6683	10	250	34.0	32.5	2.0	3.0	- 1.0	- 3.0	+10/ 9	2.0:1	+ 5	14
TM5670	20	250	8.2	7.0	2.0	3.0	+15.5	+13.5	+28/33	2.0:1	+ 5	25
TM7381	20	250	24.5	23.0	2.2	3.0	+14.5	+12.5	+27/32	2.0:1	+15	18
TM7281	20	250	25.5	23.0	2.4	3.3	+17.5	+15.5	+31/35	2.0:1	+15	30
TM7275	5	250	20.5	19.0	2.5	3.5	+ 9.5	+ 8.0	+22/27	2.0:1	+15	24
TM7203	5	250	32.0	30.0	3.0	4.0	+ 8.0	+ 6.5	+18/30	2.0:1	+15	35
TM6119	30	250	8.0	6.5	3.0	3.5	+23.0	+20.0	+36/45	2.3:1	+15	43
TM7382	20	250	18.0	16.0	4.0	5.0	+17.5	+16.0	+29/31	2.0:1	+15	45
TM7282	20	250	23.5	21.0	4.0	5.0	+21.0	+18.0	+34/38	2.3:1	+15	45
TM7277	5	250	10.5	9.5	4.0	5.0	+24.0	+20.0	+41/48	2.0:1	+15	70
TM7279	5	250	14.0	12.5	4.5	6.0	+23.0	+21.0	+36/46	2.0:1	+15	88

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- ◆ All packages are hermetically sealed and can be environmentally screened.
- ◆ All designs can be modified to meet specific requirements.

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Many available in: 4-Pin TO-8 (TM); 4-PIN TO-8B (TR); 0.5" sq. Flatpack (FP); 0.450" sq. Surface Mount Package (TN); 0.375" sq. Surface Mount Package (PN); Connectorized Housing (BX). **Non-Hermetic reduced cost configurations available.**

Model	Frequency Range (MHz)		Gain (dB)		Noise Figure (dB)		Power Output @ 1dB Comp pt. (dBm)		IP3/IP2 Typ (dBm)	VSWR Max In/Out	Power Typ (Vdc) (mA)	
	Typ	Min	Typ	Min	Typ	Max	Typ	Min			Typ	Max
TM7201	5	250	29.0	27.5	5.0	6.5	+ 7.0	+ 5.5	+19/30	2.0:1	+15	35
TM7202	5	250	27.0	26.0	5.0	6.5	+16.5	+15.0	+29/38	2.0:1	+15	88
TM5150	10	300	20.0	19.0	2.5	3.5	+18.0	+17.0	+32/43	2.4:1	+15	47
TM5105	5	300	12.0	11.0	2.8	4.0	+ 7.0	+ 5.5	+21/29	2.0:1	+15	17
TM7278	5	300	13.5	12.5	4.0	5.5	+21.5	+19.0	+36/49	2.0:1	+15	65
TM7287	10	300	15.5	14.5	2.8	4.0	+10.0	+ 9.0	+24/33	2.0:1	+ 5	15
TM7487	10	300	15.5	14.5	3.0	4.0	+ 8.0	+ 7.0	+22/31	2.0:1	+ 5	13
TM7274	5	300	31.0	29.0	3.0	4.0	+ 9.5	+ 8.0	+21/32	2.0:1	+15	40
TM7278	5	300	13.5	12.5	4.0	5.5	+21.5	+19.0	+36/49	2.0:1	+15	65
TM5103	5	300	11.5	10.0	5.0	6.5	+23.0	+21.0	+36/45	2.0:1	+15	85
TM6181	10	400	8.5	7.5	1.7	2.5	+ 8.0	+ 7.0	+23/40	2.0:1	+15	11
TR6535	10	400	32.5	30.0	1.8	3.0	+22.0	+20.0	+37/48	2.5:1	+15	90
TM6457	5	400	15.0	14.0	2.0	3.0	+10.0	+ 7.5	+24/35	2.0:1	+ 5	16
TR7217	10	400	25.5	24.0	2.5	3.0	+20.0	+18.0	+33/44	2.0:1	+15	65
TM6487	10	400	15.5	14.0	3.2	5.0	+17.5	+15.0	+32/45	2.0:1	+15	33
TM6443	10	400	13.2	12.0	3.5	5.0	+ 6.5	+ 5.0	+19/27	2.0:1	+ 5	10
TM6421	5	400	30.0	27.0	3.5	6.0	+ 9.0	+ 7.0	+22/36	2.0:1	+15	37
TM6441	20	400	14.5	13.0	3.5	5.0	+16.0	+15.0	+31/48	2.0:1	+15	32
TM6440	10	400	13.0	12.0	3.6	5.0	+ 9.0	+ 7.5	+23/33	2.0:1	+15	15
TM5441	10	400	14.5	13.0	3.8	4.5	- 1.0	- 4.0	+25/33	2.0:1	+ 5	33
TM6444	10	400	13.0	12.0	4.0	5.5	+11.0	+ 9.0	+25/37	2.0:1	+ 5	15
TM6587	10	400	13.0	12.0	4.0	5.0	+17.0	+16.0	+32/47	2.0:1	+15	32
TM6556	5	400	26.0	24.0	4.5	6.5	+14.0	+12.5	+28/47	2.0:1	+15	66
TM6442	20	400	14.0	12.5	4.5	6.0	+22.0	+19.0	+37/51	2.0:1	+15	62
TM6554	5	400	27.5	25.0	5.0	6.0	+ 8.0	+ 6.0	+19/32	2.0:1	+15	33
TM6588	5	450	18.5	17.5	4.5	7.0	+21.0	+19.0	+35/44	2.0:1	+15	80
TM6143	5	500	15.7	14.5	1.6	2.5	+ 7.5	+ 5.0	+20/28	2.5:1	+15	15
TM6719	5	500	33.0	31.0	1.7	2.0	+ 9.0	+ 8.0	+20/36	2.0:1	+15	35
TM6210	5	500	15.3	14.0	2.0	3.0	+ 7.5	+ 4.5	+18/26	2.5:1	+ 5	12
TM5104	10	500	12.0	10.5	2.0	3.5	+15.0	+13.0	+32/46	2.0:1	+15	35
TM6544	10	500	12.0	10.5	2.0	3.0	+15.0	+13.0	+32/46	2.0:1	+15	35
TM5519	5	500	15.0	14.0	2.3	3.0	+14.5	+11.5	+29/39	2.2:1	+ 5	30
TM5119	5	500	15.5	14.0	2.3	3.0	+16.0	+14.0	+32/44	2.0:1	+15	30
TM6171	5	500	15.2	14.0	2.3	3.0	+ 0.5	- 2.0	+12/15	2.0:1	+15	11
TM6583	10	500	30.0	28.0	2.3	3.0	- 1.0	- 4.0	+10/13	2.0:1	+ 5	13
TM6675	5	500	20.5	19.0	2.3	3.0	+ 5.0	+ 4.0	+18/21	2.0:1	+15	15
TM6517	5	500	22.5	21.0	2.4	3.0	+10.0	+ 8.0	+22/26	2.0:1	+15	22
TM6674	5	500	28.0	26.0	2.5	4.0	- 1.0	- 2.0	+ 9/17	2.0:1	+ 5	13
TM6511	5	500	16.5	15.5	2.5	3.0	+ 2.0	+ 1.0	+14/16	2.0:1	+15	10
TM6573	5	500	32.0	29.0	2.5	3.5	+ 2.0	- 2.5	+14/19	2.0:1	+15	20
TM6501	5	500	16.5	15.5	2.5	3.5	+ 3.0	+ 1.0	+15/17	2.0:1	+15	10
TM6510	5	500	16.5	15.5	2.5	3.5	+ 3.0	+ 1.0	+15/17	2.0:1	+15	10
TM6512	5	500	21.0	19.0	2.5	3.5	+10.0	+ 8.0	+21/27	2.0:1	+15	23
TM5110	10	500	15.0	14.0	2.5	3.0	+10.5	+ 9.0	+25/33	2.0:1	+15	25
TM6654	5	500	29.0	27.5	2.5	3.0	+11.0	+10.0	+23/33	2.0:1	+ 5	40
TM6543	10	500	11.0	10.0	2.5	3.0	+11.0	+ 9.0	+24/35	2.0:1	+15	25
TM5544	10	500	12.5	11.0	2.5	3.5	+14.5	+11.5	+27/33	2.0:1	+ 5	35
TM6570	10	500	8.0	7.0	2.5	3.0	+17.5	+17.0	+35/46	2.0:1	+15	35
TR7216	10	500	25.5	24.0	2.5	3.0	+20.0	+18.0	+33/44	2.0:1	+12	65
TM6575	5	500	21.0	19.0	2.7	3.5	+ 9.5	+ 8.5	+21/28	2.0:1	+15	23
TM5101	5	500	13.0	12.0	2.8	4.0	+ 7.5	+ 6.0	+21/31	2.0:1	+15	17

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	Typ	Min	Typ	Min	Typ	Max	Typ	Min			Typ	Min
TM6521	5	500	30.0	28.0	3.0	4.0	+ 9.0	+ 7.0	+22/30	2.0:1	+15	36
TM6681	20	500	17.5	15.5	3.0	4.0	+ 9.5	+ 7.0	+23/28	2.0:1	+15	29
TM5126	5	500	15.0	14.0	3.0	3.5	+17.0	+16.0	+32/42	2.0:1	+15	50
TM6547	10	500	12.5	11.0	3.0	4.0	+19.0	+17.5	+35/48	2.0:1	+15	55
TM6147	5	500	17.0	16.0	3.0	4.5	+20.0	+17.5	+35/44	2.0:1	+15	50
TR6689	10	500	30.0	28.0	3.2	4.0	+21.5	+20.0	+34/44	2.0:1	+15	130
TM5133	10	500	10.0	9.0	3.3	4.5	+16.0	+14.5	+30/45	2.0:1	+15	57
TM6503	5	500	16.5	15.5	3.5	4.5	+ 1.5	0.0	+14/16	2.0:1	+15	10
TM6574	5	500	30.0	27.0	3.5	6.0	+ 9.0	+ 7.0	+22/36	2.0:1	+15	37
TM6520	5	500	14.5	13.5	3.5	4.5	+13.0	+11.5	+27/34	2.0:1	+ 5	33
TM6416	5	500	15.0	14.0	3.5	4.5	+13.5	+12.0	+27/35	2.0:1	+15	35
TM6524	5	500	31.0	29.0	3.5	4.0	+15.0	+14.0	+25/30	2.0:1	+15	70
TM6581	20	500	22.0	21.0	3.5	4.5	+16.0	+13.5	+28/40	2.0:1	+15	27
TM6533	5	500	16.5	15.0	3.5	5.5	+17.0	+15.0	+32/42	2.0:1	+15	50
TM6577	5	500	16.5	15.0	3.5	5.5	+17.0	+15.0	+32/42	2.0:1	+15	50
TM6526	10	500	28.0	26.0	3.5	4.0	+21.0	+18.5	+35/50	2.0:1	+15	93
TM6582	30	500	23.0	21.5	3.5	4.5	+21.0	+17.0	+33/43	2.0:1	+15	47
TM6513	5	500	17.0	15.5	3.7	5.0	+16.5	+15.0	+29/41	2.0:1	+24	50
TR6589	5	500	26.5	25.0	3.7	5.0	+22.0	+20.0	+35/55	2.0:1	+15	130
TM6505	5	500	15.0	14.0	4.0	5.0	+10.0	+ 8.5	+23/33	2.0:1	+15	24
TM6555	5	500	14.7	13.5	4.0	6.5	+11.5	+ 9.0	+24/35	2.0:1	+15	33
TM5109	10	500	10.5	9.5	4.0	5.0	+13.0	+12.0	+28/40	2.0:1	+15	35
TM6672	5	500	14.7	13.5	4.0	5.5	+13.0	+11.0	+27/38	2.0:1	+ 9	30
TM6572	5	500	14.7	13.5	4.0	5.5	+13.0	+11.0	+27/38	2.0:1	+ 5	30
TM6516	5	500	14.5	13.5	4.0	4.5	+14.0	+12.0	+28/38	2.0:1	+15	35
TM6545	10	500	11.5	10.0	4.0	5.5	+20.5	+18.0	+36/48	2.0:1	+15	60
TM6519	5	500	14.3	12.0	4.2	5.5	+19.0	+17.0	+34/40	2.0:1	+15	70
TM6507	10	500	15.5	14.0	4.3	6.0	+24.0	+20.0	+35/40	2.0:1	+15	110
TM6557	10	500	15.0	13.5	4.5	6.5	+15.5	+14.0	+30/38	2.0:1	+15	44
TM6515	5	500	12.5	11.0	4.5	5.5	+16.5	+15.0	+31/43	2.0:1	+15	50
TM6131	10	500	10.3	9.0	4.5	6.5	+20.0	+18.0	+37/50	2.0:1	+15	62
TM6509	5	500	14.5	13.0	4.6	6.0	+23.0	+20.0	+36/50	2.0:1	+15	88
TM6558	5	500	12.0	10.5	4.8	6.5	+19.0	+17.5	+36/48	2.0:1	+15	65
TM6607	5	500	15.0	14.0	5.0	6.0	+14.5	+12.5	+24/34	2.0:1	+24	50
TM6149	5	500	15.3	14.5	5.0	6.0	+16.0	+14.5	+30/41	2.0:1	+15	45
TM6576	5	500	28.0	26.0	5.0	6.0	+16.0	+14.0	+30/52	2.0:1	+15	64
TR9604	30	500	23.0	21.0	5.0	6.0	+21.0	+19.0	+33/40	2.0:1	+15	125
TM6518	5	500	14.0	12.5	5.2	6.5	+25.0	+22.5	+33/40	2.0:1	+15	125
TM6603	5	500	10.0	8.5	5.5	7.0	+15.5	+14.0	+30/42	2.0:1	+24	50
TM6523	5	500	25.5	23.0	5.5	7.0	+16.0	+14.0	+26/35	2.0:1	+15	75
TM5102	5	500	12.5	11.0	5.5	7.0	+22.0	+20.0	+36/46	2.0:1	+15	88
TM6559	5	500	11.5	10.0	5.5	7.0	+22.0	+20.0	+36/46	2.0:1	+15	88
TM6203	5	500	14.5	13.0	5.5	7.5	+25.0	+22.5	+36/42	2.0:1	+15	127
TM6705	5	500	10.5	9.0	6.0	7.5	+20.0	+18.0	+34/44	2.0:1	+15	90
TM5107	10	550	15.0	14.0	1.75	2.3	+ 2.0	+ 1.0	+13/16	2.0:1	+15	9
TM6605	10	600	15.5	14.0	3.0	4.5	+10.0	+ 8.0	+23/32	2.0:1	+15	24
TM6667	5	600	14.0	12.5	4.0	5.5	+15.0	+14.0	+30/45	2.0:1	+15	33
TM6659	10	700	10.5	9.0	6.5	8.0	+22.0	+20.0	+36/46	2.0:1	+15	88
TM9167	10	800	12.5	11.5	4.5	5.5	+15.5	+14.5	+30/45	2.0:1	+15	32
TM9118	10	800	14.7	13.5	4.5	5.5	+16.0	+ 15.0	+26/33	2.0:1	+15	45

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- ◆ All designs can be modified to meet specific requirements.

Full Performance Amplifiers - BiPolar Silicon Transistor

Many available in: 4-Pin TO-8 (TM); 4-PIN TO-8B (TR); 0.5" sq. Flatpack (FP); 0.450" sq. Surface Mount Package (TN); 0.375" sq. Surface Mount Package (PN); Connectorized Housing (BX). **Non-Hermetic reduced cost configurations available.**

Model	Frequency Range (MHz)		Gain (dB)		Noise Figure (dB)		Power Output @ 1dB Comp pt. Typ (dBm) Min		IP3/IP2 Typ (dBm)	VSWR Max In/Out	Power Typ (Vdc) (mA)	
	Typ	Min	Typ	Min	Typ	Max	Typ	Min			Typ	Min
TM9511	5	1000	16.5	15.0	2.3	3.0	+ 1.0	- 1.0	+14/16	2.0:1	+15	9.5
TM9311	5	1000	16.5	15.0	2.3	3.0	+ 2.0	- 1.0	+14/17	2.0:1	+15	10
TM9111	5	1000	15.0	14.0	2.4	4.0	+ 1.0	- 2.0	+12/15	2.0:1	+15	9
TM9101	5	1000	15.0	14.0	2.4	4.0	+ 1.0	- 2.0	+12/15	2.0:1	+15	9
TM9163	5	1000	16.0	15.0	2.5	3.5	+ 5.0	+ 3.0	+16/21	2.0:1	+15	14
TM9143	10	1000	10.5	9.0	2.5	4.5	+10.0	+ 8.0	+27/38	2.0:1	+15	25
TM9566	10	1000	26.0	24.5	3.0	4.0	+ 0.1	- 0.5	+12/21	2.0:1	+15	18
TM9363	5	1000	16.5	15.0	3.0	4.0	+ 6.0	+ 4.0	+19/25	2.0:1	+15	16
TM9312	5	1000	16.5	15.0	3.0	4.0	+ 7.0	+ 5.0	+20/24	2.0:1	+15	18
TM9102	5	1000	15.0	13.5	3.0	4.5	+10.0	+ 7.5	+23/32	2.0:1	+15	23
TM6145	10	1000	10.7	10.0	3.0	5.0	+19.0	+16.0	+35/46	3.0:1	+15	50
TM9313	5	1000	16.0	15.0	3.5	4.5	+12.0	+10.0	+23/35	2.0:1	+15	29
TM9318	10	1000	14.7	13.5	3.7	5.5	+16.0	+14.5	+30/42	2.0:1	+15	47
TM9107	5	1000	13.5	11.5	3.9	5.0	+13.0	+10.0	+22/26	2.0:1	+ 5	33
TM9115	5	1000	14.5	13.0	4.0	5.5	+ 9.5	+ 8.0	+23/32	2.0:1	+15	24
TM6176	5	1000	13.5	12.0	4.0	5.0	+14.0	+12.0	+27/40	2.0:1	+15	38
TM9366	10	1000	27.5	25.5	4.0	5.0	+15.0	+13.5	+25/32	2.0:1	+15	63
TM9117	10	1000	12.0	10.0	4.0	6.0	+15.5	+14.5	+28/40	2.0:1	+15	46
TM9518	10	1000	14.7	13.5	4.0	5.5	+16.0	+14.5	+29/41	2.0:1	+15	44
TM6155	300	1000	12.5	10.5	4.0	5.5	+19.5	+18.0	+33/45	3.0:1	+15	50
TR9169	10	1000	25.5	24.0	4.0	5.5	+21.0	+19.0	+33/48	2.0:1	+15	125
TM9165	10	1000	10.5	9.0	4.5	6.0	+11.0	+ 9.0	+24/37	2.0:1	+15	30
TM9157	1	1000	10.2	8.5	4.5	6.0	+14.0	+13.0	+27/37	2.0:1	+15	44
TM9106	5	1000	12.0	10.5	4.8	6.0	+19.0	+16.0	+27/32	2.0:1	+15	70
TM9333	5	1000	11.5	10.0	5.0	6.5	+16.0	+14.0	+30/44	2.0:1	+15	48
TM9319	10	1000	11.5	10.0	5.5	7.5	+22.0	+20.0	+35/46	2.0:1	+15	90
TM9119	10	1000	9.0	7.0	8.5	11.0	+21.0	+19.0	+34/40	2.0:1	+15	100
TM9105												
TM6345	10	1100	12.3	10.5	3.0	4.0	+17.0	+15.0	+33/46	3.0:1	+15	45
TM9316	10	1200	13.0	12.0	3.0	4.0	+ 6.0	+ 4.5	+19/28	2.0:1	+5	15
TM9164	10	1200	26.0	24.0	3.6	4.5	+ 8.5	+ 6.5	+20/33	2.0:1	+15	35
TM9166	10	1200	23.5	22.0	4.5	5.5	+15.0	+13.5	+28/46	2.0:1	+15	64
TM5131	5	1300	18.0	17.0	5.0	5.5	+ 7.5	+ 6.0	+20/40	2.0:1	+15	40
TM6212	10	1300	10.0	8.5	6.0	8.0	+23.0	+19.5	+34/42	2.0:1	+15	92
TM9328	10	1500	14.0	12.5	3.2	4.5	+12.0	+ 9.0	+23/31	2.0:1	+5	27
TM9325	10	1500	14.0	13.0	3.5	4.5	+ 9.0	+ 7.5	+22/30	2.0:1	+15	24
TM9123	10	1500	12.0	10.0	4.0	4.5	+ 4.0	+ 3.0	+17/22	2.0:1	+15	14
TM9114	10	1500	20.0	18.0	4.0	5.5	+ 7.0	+ 5.0	+21/42	2.0:1	+12	34
TM9124	10	1500	20.0	18.0	4.0	5.5	+ 8.0	+ 6.0	+21/42	2.0:1	+15	34
TM9502	5	1500	10.5	8.5	4.0	5.5	+ 9.0	+ 7.0	+24/32	2.0:1	+15	23
TM9121	10	1500	15.0	13.5	4.0	5.0	+13.5	+12.0	+26/34	2.0:1	+15	34
TM9524	10	1500	22.0	20.0	4.3	5.0	+13.0	+10.0	+23/31	2.2:1	+15	56
TM9125	10	1500	10.5	9.0	4.5	6.0	+ 8.0	+ 7.0	+21/33	2.0:1	+15	24
TM9128	10	1500	11.5	10.0	4.5	6.0	+15.0	+13.5	+29/43	2.0:1	+15	40
TM9522	5	1500	20.5	18.5	5.0	6.0	+14.0	+10.0	+25/42	2.0:1	+15	64
TM9126	10	1500	20.5	18.5	5.0	6.0	+15.0	+13.0	+28/45	2.0:1	+15	64
TM9127	10	1500	9.0	8.0	6.0	8.0	+16.0	+14.0	+32/42	2.0:1	+15	52
TM9329	10	1500	9.0	7.5	6.5	8.0	+22.0	+20.0	+30/36	2.0:1	+15	90
TM9129	10	1500	7.0	6.0	7.5	9.0	+21.5	+19.0	+34/40	2.0:1	+15	95

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Full Performance Amplifiers - BiPolar Silicon Transistor

Many available in: 4-Pin TO-8 (TM); 4-PIN TO-8B (TR); 0.5" sq. Flatpack (FP); 0.450" sq. Surface Mount Package (TN); 0.375" sq. Surface Mount Package (PN); Connectorized Housing (BX). **Non-Hermetic reduced cost configurations available.**

Model	Frequency Range (MHz)		Gain (dB)		Noise Figure (dB)		Power Output @ 1dB Comp pt. Typ (dBm) Min		IP3/IP2 Typ (dBm)	VSWR Max In/Out	Power Typ (Vdc) (mA)	
	Typ	Min	Typ	Min	Typ	Max	Typ	Min			Typ	Min
TM9529	10	1600	9.0	7.5	6.5	8.0	+19.0	+18.0	+29/35	2.0:1	+12	90
TM9331	10	2000	11.5	10.5	4.0	4.5	+ 2.0	+ 0.0	+14/21	2.0:1	+15	11
TM9352	5	2000	10.0	8.5	4.0	5.5	+ 8.0	+ 5.0	+20/28	2.0:1	+ 5	18
TM9133	10	2000	9.5	8.0	4.5	5.5	+ 3.0	+ 2.0	+16/23	2.0:1	+15	14
TM9134	100	2000	16.5	14.0	4.5	6.0	+ 6.0	+ 3.0	+16/33	2.0:1	+15	35
TM9324	10	2000	16.0	14.0	4.7	6.0	+ 6.5	+ 4.5	+19/37	2.0:1	+15	38
TM9322	10	2000	10.0	8.5	5.0	6.5	+ 9.0	+ 7.5	+23/35	2.0:1	+15	25
TM9135	10	2000	10.0	8.5	5.0	6.5	+ 9.0	+ 7.5	+23/35	2.0:1	+15	25
FP9130	200	2000	23.5	22.0	5.0	6.5	+15.0	+13.5	+27/40	2.0:1	+15	90
TM9436	10	2000	17.0	15.0	5.5	7.5	+11.0	+10.0	+21/27	1.5:1	+12	63
TM9136	10	2000	17.0	15.0	5.5	7.5	+12.0	+11.0	+22/28	2.0:1	+15	63
TM9323	10	2000	8.5	7.5	5.5	7.5	+15.0	+14.0	+30/50	2.0:1	+15	50
TM9138	10	2000	7.5	6.0	6.0	9.5	+19.0	+16.5	+33/46	2.2:1	+15	65
TM9137	10	2000	9.5	7.0	6.5	10.0	+15.5	+13.0	+28/38	2.2:1	+15	45
TM9327	10	2000	15.0	13.0	6.5	7.5	+17.5	+16.0	+29/38	2.0:1	+15	108
TM9139	10	2000	7.5	6.0	7.0	9.5	+22.0	+19.5	+34/50	2.0:1	+15	90
TM9302	1700	2300	10.5	8.5	5.0	6.5	+15.0	+14.0	+23/40	2.0:1	+15	18

Full Performance Amplifiers - GaAs FET

Many available in: 4-Pin TO-8 (TM); 4-PIN TO-8B (TR); 0.5" sq. Flatpack (FP); 0.450" sq. Surface Mount Package (TN); 0.375" sq. Surface Mount Package (PN); Connectorized Housing (BX). **Non-Hermetic reduced cost configurations available.**

Model	Frequency Range (MHz)		Gain (dB)		Noise Figure (dB)		Power Output @1dBm Comp pt. Typ (dBm) Min		IP3/IP2 Typ (dBm)	VSWR MAX In/Out	Power Typ (Vdc) (mA)	
	Typ	Min	Typ	Min	Typ	Max	Typ	Min			Typ	Min
TR 9762	1000	1200	28.0	26.0	1.0	2.5	+16.0	+14.0	+28/40	2.0:1	+15	80
TM9763	1400	1500	16.0	14.0	1.0	2.5	+ 9.0	+ 7.0	+18/25	2.0:1	+ 5	25
TM9702	500	1500	12.0	10.5	2.8	4.0	+19.8	+19.0	+31/40	2.0:1	+ 8	107
TM9764	1500	1600	16.0	14.0	1.0	2.5	+ 9.0	+ 7.0	+18/25	2.0:1	+ 5	25
TM9766	1700	1800	13.0	11.0	1.1	2.8	+ 8.0	+ 6.0	+18/28	2.0:1	+15	30
TR9765	1700	2000	23.0	20.0	1.1	3.0	+16.0	+14.5	+27/41	2.0:1	+15	80
TM9700	200	2000	12.0	9.5	2.2	4.0	+17.5	+15.5	+29/35	2.2:1	+ 6	70
TM9701	200	2000	12.0	11.0	3.0	4.0	+14.0	+13.0	+25/32	2.0:1	+ 5	48
TM9712	500	2000	11.0	9.0	3.0	4.0	+16.0	+14.0	+24/30	2.0:1	+15	46
TM9713	500	2000	11.0	8.5	4.5	6.0	+22.0	+18.0	+34/44	2.0:1	+15	120
TM9715	500	2000	11.0	10.0	4.5	6.0	+25.0	+24.0	+40/49	2.3:1	+12	180
TM9725	500	2000	11.0	10.0	6.5	8.0	+26.5	+25.0	+38/45	2.0:1	+15	190
TM9711	1000	2000	12.0	10.0	2.2	3.0	+16.0	+15.0	+29/35	2.0:1	+ 6	62
TM9710	1000	2000	12.8	11.0	3.4	4.0	+12.0	+10.5	+23/33	2.0:1	+15	26
TM9730	1400	2400	12.0	10.0	4.0	5.5	+26.0	+25.0	+37/46	2.5:1	+15	150
TM9740	2000	2500	11.0	10.0	4.0	5.5	+21.5	+20.0	+39/51	1.75:1	+15	98

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- ◆ All designs can be modified to meet specific requirements.