

# RF Bay, Inc. 2016 Short Form Catalog



## Low Noise Amplifier LNA Series

Part Number	Frequency (MHz)	NF (dB)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	VSWR (In/Out)	DC (V)	DC (mA)
LNA-200	200 - 300	1.1	21	+19	+33	1.3/1.7	15	75
LNA-250	10 - 250	1.4	17	+21	+39	1.4/1.1	5	160
LNA-300	225 - 400	0.8	21	+17	+35	1.2/1.4	12	75
LNA-350	200 - 500	0.8	22	+19	+35	1.5/1.9	5	100
LNA-400	150 - 650	0.8	21	+17	+35	1.2/1.4	12	75
LNA-440	420 - 450	2.7	24	+14	+26	2.5/1.2	12	15
LNA-500	10 - 500	2.9	18	+5	+14.5	1.5/1.7	12	16
LNA-500H	10 - 500	3.6	11	+17.5	+30	1.5/1.7	12	60
LNA-510	10 - 550	1.7	27	+19	+34	1.2/1.7	12	105
LNA-520	20 - 520	1.4	33	+18	+34	1.4/1.2	12	100
LNA-530	1 - 500	2.0	30	+13	+25	1.4/1.4	15	40
LNA-545	0.01 - 500	1.9	45	+10	+20	1.4/1.3	15	75
LNA-547	10 - 700	2.0	47	+22	+38	1.6/1.3	15	150
LNA-550	10 - 550	0.9	19	+8	+20	1.5/1.2	12	30
LNA-580	10 - 580	0.7	23	+19	+33	1.5/1.5	5	70
LNA-600	200 - 1000	0.85	20	+17	+35	1.3/1.5	12	75
LNA-605	10 - 600	1.0	40	+17	+31	1.5/1.2	5	135
LNA-650	0.03 - 600	2.2	50	+13.5	+25	1.5/1.2	15	85
LNA-700	10 - 700	1.0	40	+25	+35.8	1.5/1.2	5	240
LNA-750	300 - 1200	0.5	40	+19	+34	1.3/1.2	12	125
LNA-800	300 - 1300	0.5	34	+22.5	+39	1.9/1.4	12	190
LNA-840	10 - 800	2.2	40	+17	+30	1.7/1.2	12	100
LNA-850	750 - 950	1.2	17	+16.5	+30	1.4/1.2	5	60
LNA-900	880 - 960	1.2	23	+13	+25	2.4/1.4	12	25
LNA-910	900 - 1000	0.7	10	+13	+27	1.5/1.5	9 - 24	76
LNA-915	902 - 928	1.2	24	+13	+25	2.4/1.4	12	25
LNA-925	350 - 1500	1.0	30	+22	+33	1.8/1.4	5	160
LNA-930	30 - 930	1.3	30	+19	+35	1.3/1.1	12	115
LNA-950	350 - 1550	0.5	34	+18.5	+32	1.6/1.6	12	170
LNA-1000	10 - 1000	2.0	33	+11	+23	1.5/1.6	12	35
LNA-1018	50 - 1000	1.0	18	+17	+31	1.8/1.4	12	70
LNA-1030	20 - 1000	1.3	30	+17	+31	1.2/1.2	12	140
LNA-1035	500 - 1000	1.8	35	+13	+24	1.5/1.4	12	80
LNA-1036	50 - 1000	1.0	36	+22	+38	1.6/1.6	12	175
LNA-1045	50 - 1000	2.1	45	+22	+32	1.5/1.5	12	140
LNA-1050	10 - 1000	2.2	50	+13	+24	1.9/1.3	12	88
LNA-1100	700 - 1500	0.6	37	+19	+33	1.2/1.7	12	140
LNA-1150	300 - 2000	0.6	37	+20	+33	1.5/1.8	12	150

Part Number	Frequency (MHz)	NF (dB)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	VSWR (In/Out)	DC (V)	DC (mA)
LNA-1200	1150 - 1300	1.2	20	+12	+24	2.0/1.6	12	25
LNA-1225	1215 - 1240	1.2	21	+12	+24	1.7/1.9	12	25
LNA-1240	100- 1200	3.5	41	+19	+32	1.5/1.5	15	150
LNA-1245	50- 1200	2.2	45	+12	+23	1.5/1.2	12	88
LNA-1300	550- 1300	0.55	15.5	+21	+38	1.1/1.5	5	90
LNA-1330	10- 1300	1.5	33	+20	+34	1.3/1.3	12	165
LNA-1350	700- 2000	0.8	35	+23	+37	1.6/1.2	12	170
LNA-1400	100- 1400	0.8	20	+17	+35	1.25/1.35	12	75
LNA-1440	0.01- 1400	2.7	40	+19	+32	1.4/1.4	15	120
LNA-1450	0.01- 1400	2.0	30	+9	+21	1.5/1.8	12	35
LNA-1500	10- 1500	3.3	36	+10	+23	1.5/2.0	12	45
LNA-1520	20- 1500	1.0	20	+17	+35	1.5/1.7	12	70
LNA-1535	1000- 2000	1.0	35	+23	+37	1.7/1.3	12	180
LNA-1550	50- 1550	2.7	47	+20	+33	2.5/2.5	12	140
LNA-1620	1600- 2000	1.1	18	+14	+25	1.9/1.3	12	25
LNA-1700	1400- 2000	1.4	16.5	+16	+29	1.2/1.7	5	50
LNA-1800	0.001- 1800	2.2	30	+8	+20	1.9/1.4	12	40
LNA-1820	1800- 2000	1.1	16	+26	+39	1.7/1.4	5	160
LNA-1822	1800- 2200	1.3	17.5	+14	+25	1.7/1.4	12	25
LNA-1835	200- 1800	1.8	35	+13	+24	2.0/1.4	12	35
LNA-2000	0.01- 2000	3.2	26	+10	+23	1.5/1.4	12	45
LNA-2024	2000- 2400	1.4	17	+13	+25	1.7/1.4	12	25
LNA-2030	2000- 3000	0.9	19	+19.5	+33.5	1.7/2.0	5	95
LNA-2227	2200- 2700	1.4	16	+14	+26	1.6/1.3	12	25
LNA-2250	1650- 2250	0.8	18	+20	+36	1.4/1.3	5	115
LNA-2400	2400- 2500	1.7	24	+10	+20	2.0/1.5	12	45
LNA-2425	2400- 2500	0.85	14	+26	+39	1.9/1.2	5	170
LNA-2428	2400- 2800	1.6	15	+13	+25	1.6/1.3	12	25
LNA-2450	2400- 2500	1.5	16	+14	+26	1.6/1.3	12	25
LNA-2500	0.1- 2500	2.4	25	-1	+8	1.2/1.7	12	17
LNA-2600	2500- 2700	1.8	23	+10	+20	2.3/1.5	12	45
LNA-2700	2200- 3200	1.7	23	+10	+20	2.5/1.5	12	45
LNA-3000A	40- 3000	1.3	16	+8	+22	1.5/1.5	3	18
LNA-3000B	40- 3000	1.3	17.5	+19	+32	2.0/2.0	5	60
LNA-3000C	40- 3000	1.3	17.5	+19	+32	2.0/2.0	12	60
LNA-3040	3000- 4000	1.0	17.5	+18.5	+33.7	1.8/1.4	5	65
LNA-4000	3000- 5000	2.0	20	+4.5	+15	1.8/1.1	12	25
LNA-4020	20- 4000	2.0	25	+12	+27	1.8/1.4	12	135
LNA-4050	20- 4000	2.0	25	+18	+35	1.6/1.5	5	160
LNA-4560	4500- 6000	1.1	15	+18.4	+31.2	2.5/1.5	5	65



Part Number	Frequency (MHz)	NF (dB)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	VSWR (In/Out)	DC (V)	DC (mA)
LNA-5200	5100- 5300	2.0	16	+12	+24	1.5/1.5	12	55
LNA-5500	5000- 6000	2.0	16	+12	+24	1.5/1.6	12	55
LNA-5800	5700- 5900	2.0	16	+12	+24	1.7/1.4	12	55
LNA-6500	5800- 6500	2.5	18	+14	+27	1.6/2.0	12	88
LNA-6G	500- 6000	1.8	22	+4	+15	1.3/1.4	12	15
LNA-8G	1000- 8000	1.6	24	+6.3	+16	1.5/1.2	12	20
LNA-14G	7000- 14000	1.8	17	+13	+25	1.5/1.5	5	60

### Low Noise Amplifier ENA Series

Part Number	Frequency (MHz)	NF (dB)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	VSWR (In/Out)	DC (V)	DC (mA)
ENA-100T	10 – 600	0.9	40	+17	+31	1.5/1.1	9 - 15	140
ENA-120T	400 – 1000	0.7	40	+17	+31	1.2/1.8	9 - 15	140
ENA-130T	20 – 1000	1.3	30	+17	+31	1.4/1.2	9 - 15	140
ENA-150T	20 – 600	2.2	67	+18	+32	2.1/1.5	12 - 15	140
ENA-157T	6000 – 18000	2.1	25	+11	+24	2.3/1.5	5 - 15	70
ENA-160T	10 – 800	2.1	60	+19	+33	1.6/2.1	12 - 15	160
ENA-200T	100 – 2000	2.5	60	+19	+33	2.3/1.9	12 - 15	170
ENA-545T	350 – 2350	1.2	30	+21	+33	1.5/1.3	9 - 15	160
ENA-750T	500 – 1000	0.85	30	+21	+33	1.6/1.3	9 - 15	160
ENA-1721T	1700 – 2100	1.0	22	+20	+32	1.4/1.9	9 - 15	160

### Low Noise Amplifier GNA Series

Part Number	Frequency (MHz)	NF (dB)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	VSWR (In/Out)	DC (V)	DC (mA)
GNA-60F	10 – 600	1.0	22	+19	+33	1.5/1.4	5 - 15	65
GNA-70F	1500 – 6000	1.5	25	+12	+25	1.8/1.7	5 - 15	50
GNA-80F	5000 – 11000	1.7	23	+12	+22	1.2/1.9	5 - 15	50
GNA-90F	4000 – 12000	1.7	20	+12	+22	1.2/1.9	5 - 15	50
GNA-100F	6000 – 14000	2.0	17	+13	+25	1.3/1.3	5 - 15	60
GNA-101F	1700 – 2500	0.55	17	+17.5	+36	1.4/1.3	5 - 15	115
GNA-102F	1000 – 3000	0.55	17	+14	+33	1.3/1.2	5 - 15	115
GNA-103F	1500 – 3500	0.7	17	+16.5	+34	1.6/1.5	5 - 15	115
GNA-104F	800 – 4000	0.7	17	+13	+32	1.6/1.5	5 - 15	115
GNA-105T	400 – 2500	1.0	17	+22	+34	1.8/1.5	9 - 15	50
GNA-106T	1700 – 2100	0.8	15	+22	+33	1.8/1.6	9 - 15	50
GNA-107T	600 – 1200	0.8	17	+20	+32	1.2/1.2	9 - 15	50
GNA-108T	1000 – 2000	0.6	20	+20	+36	1.5/1.3	9 - 15	65

Part Number	Frequency (MHz)	NF (dB)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	VSWR (In/Out)	DC (V)	DC (mA)
GNA-109T	700 – 2700	0.6	21	+18	+35	1.7/1.1	9 - 15	65
GNA-110T	1200 – 2700	0.6	20	+18	+35	1.7/1.1	9 - 15	65
GNA-111T	1000 – 3500	0.6	20	+17	+34	1.9/1.1	9 - 15	65
GNA-112T	500 – 4000	0.7	19	+17	+34	2.1/1.2	9 - 15	65
GNA-115T	400 – 2000	0.4	19	+21	+36	1.5/1.6	9 - 15	80
GNA-116T	500 – 1000	0.4	21	+21	+36	1.6/1.6	9 - 15	80
GNA-117T	100 – 1500	0.4	20	+19	+33	1.5/1.7	9 - 15	80
GNA-118T	1800 – 3800	0.8	18	+20	+39	1.8/1.6	9 - 15	110
GNA-119T	1000 – 4000	0.8	18	+20	+39	1.6/1.5	9 - 15	110
GNA-120F	8000 – 16000	1.9	20	+13	+25	1.4/1.1	5 - 15	65
GNA-130F	5000 – 21000	2.5	19	+10	+20	1.8/1.3	5 - 15	65
GNA-157F	6000 – 18000	1.9	27	+10	+25	2.0/1.6	5	65
GNA-515E	5000 – 15000	1.9	27	+10	+25	1.7/1.5	5	65
GNA-612E	6000 – 12000	2.0	26	+11	+25	1.4/1.4	5	65
GNA-902F	5000 – 10000	2.0	19	+16	+28	1.1/1.3	5	78
GNA-903F	5000 – 17000	1.9	18	+14	+25	1.2/1.4	5	100
GNA-904F	24000 – 36000	3.0	22	+11	+21	1.3/1.7	5	80

### Low Noise Amplifier BNA Series

Part Number	Frequency (MHz)	NF (dB)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	VSWR (In/Out)	DC (V)	DC (mA)
BNA-1575	1555 – 1595	1.1	33	+3	+15	1.5/1.5	5 - 15	10
BNA-1960	1930 – 1990	2.0	43	+4	+15	3.0/2.0	9 - 15	30
BNA-2400	2400 – 2500	1.8	20	+4	+15	2.2/2.2	9 - 15	18
BNA-2450	2400 – 2500	2.0	40	+4	+15	1.8/1.5	9 - 15	30

### Low Noise Amplifier XNA Series

Part Number	Frequency (MHz)	NF (dB)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	VSWR (In/Out)	DC (V)	DC (mA)
XNA-02000400-061026	2000 - 4000	0.6	26	+10	+10	2.0/2.0	12-15	150
XNA-03400420-051037	3400 – 4200	0.5	37	+10	+10	2.0/2.0	12-15	150
XNA-03400420-152033	3400 – 4200	1.5	33	+20	+20	2.0/2.5	12-15	225
XNA-02000800-091026	2000 - 8000	0.9	26	+10	+10	2.0/2.0	12-15	150
XNA-04000800-061035	4000 - 8000	0.6	35	+10	+10	2.0/2.0	12-15	150
XNA-05000720-071035	5000 – 72000	0.7	35	+10	+10	1.5/1.5	12-15	150
XNA-00101000-201028	100 - 10000	2.0	28	+10	+10	2.2/2.2	12-15	150
XNA-02001000-101024	2000 - 10000	1.0	24	+10	+10	2.0/2.0	12-15	150

Part Number	Frequency (MHz)	NF (dB)	Gain (dB)	P <sub>1dB</sub> (dBm)	VSWR (In/Out)	DC (V)	DC (mA)
XNA-06001200-121032	6000 - 12000	1.2	32	+10	2.0/2.0	12-15	150
XNA-08001200-091033	8000 - 12000	0.9	33	+10	2.0/2.0	12-15	165
XNA-08001200-111030	8000 - 12000	1.1	30	+10	2.0/2.0	12-15	150
XNA-08001200-402022	8000 - 12000	4.0	22	+20	2.0/2.0	12-15	250
XNA-10701220-101040	10700 - 12700	1.0	40	+10	2.0/2.0	12-15	150
XNA-00101800-251020	100 - 18000	2.5	20	+10	2.5/2.5	12 - 15	175
XNA-00501800-241020	500 - 18000	2.4	20	+10	2.5/2.5	12 - 15	225
XNA-00501800-352333	500 - 18000	3.5	33	+23	2.5/2.5	12 - 15	350
XNA-01001800-251330	1000 - 18000	2.5	30	+13	2.5/2.5	12 - 15	150
XNA-02001800-251325	2000 - 18000	2.5	25	+13	2.5/2.5	12 - 15	150
XNA-08001800-200820	8000 - 18000	2.0	20	+8	2.0/2.0	12 - 15	150
XNA-02002000-362018	2000 - 20000	3.6	18	+20	2.5/2.5	12 - 15	350
XNA-00502650-401018	500 - 26500	4.0	18	+10	2.5/2.5	12 - 15	150
XNA-18002100-161820	18000 - 21000	1.6	20	+18	2.5/2.0	12 - 15	250
XNA-18002600-241941	18000 - 26000	2.4	41	+19	2.0/2.5	12 - 15	275

### Low Power Amplifier LPA Series

Part Number	Frequency (MHz)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	NF (dB)	VSWR (In/Out)	DC (V)	DC (mA)
LPA-1-18	800 - 1000	18.5	+27	+37	4.2	2.2/2.2	5	250
LPA-1-20	50 - 1000	20	+20	+36	3.6	1.2/1.3	12	85
LPA-1-30	5 - 1000	32	+8.5	+19	3.5	2.2/1.5	5	25
LPA-1-30	10 - 1500	40	+20	+32	3.6	1.3/1.4	12	135
LPA-1-45	100 - 1000	45	+20	+34	3.5	1.5/1.5	12	135
LPA-2-15	5 - 2400	20	+9	+18	6.0	1.6/2.5	3	37
LPA-2-17	50 - 2500	17	+18.5	+32.5	4.0	1.5/1.5	12	85
LPA-2-19	5 - 2000	21.5	+7.8	+18.5	6.0	1.6/1.9	5	27
LPA-2-20	50 - 3000	21	+8	+18	6.5	1.8/2.2	3	28
LPA-2-30	100 - 2100	30	+18	+32	4.2	1.5/1.2	12	130
LPA-3-10	50 - 3000	11.5	+17.5	+32.5	4.4	1.2/1.3	12	80
LPA-3-13	0.01 - 3000	13	+13	+27	4.0	1.2/1.5	15	47
LPA-3-15	10 - 3000	18	+20	+33	3.3	1.7/1.9	12	115
LPA-3-18	1 - 3000	20	+22	+35	4.0	1.5/2.0	15	110
LPA-3-24	50 - 3000	24	+14	+24	4.5	1.4/1.5	12	95
LPA-4-14	10 - 4000	18	+20	+34	3.5	1.5/2.0	12	80
LPA-4-15	100 - 5000	15	+19	+35	4.5	1.5/1.5	12	85
LPA-4-18	60 - 4000	20	+20	+35	4.2	1.5/1.5	5	75
LPA-4-30	100 - 4000	33	+18.7	+34	5.0	1.7/1.6	12	130
LPA-4-34	50 - 4200	34	+19	+33	4.1	1.6/1.8	12	130

Part Number	Frequency (MHz)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	NF (dB)	VSWR (In/Out)	DC (V)	DC (mA)
LPA-5-15	70 – 5500	15	+19	+35	4.5	1.5/1.5	5	80
LPA-6-12	100 – 6000	15	+12.5	+26	4.0	2.0/2.3	12	40
LPA-6-26	100 – 6000	34	+19	+32	4.2	2.0/2.0	12	125
LPA-6-27	50 – 6000	27	+16.9	+31	5.5	1.7/1.8	12	130
LPA-6-30	0.3 – 6500	37	+17	+32	4.5	1.4/1.6	12	120
LPA-7-24	100 – 7000	24	+16	+28	5.5	1.3/1.8	12	130
LPA-7-25	0.1 – 7000	37	+19	+31	4.2	1.7/1.7	12	130
LPA-8-17	10 – 8000	21	+17	+32	3.5	1.2/1.2	12	75
LPA-9-22	50 – 9000	32	+15.3	+28.1	4.5	1.7/1.5	12	110
LPA-10-10	100 – 10000	16	+13	+28	4.0	1.7/1.7	12	50
LPA-10-20	0.1 – 10000	32	+15.3	+28	4.5	1.7/1.5	12	110

### Low Power Amplifier EPA Series

Part Number	Frequency (MHz)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	NF (dB)	VSWR (In/Out)	DC (V)	DC (mA)
EPA-140T	100 – 3000	43	+18	+35	3.6	1.7/1.7	12 - 15	190
EPA-150T	50 – 3000	50	+14	+28	3.6	1.3/1.3	9 - 15	155
EPA-158T	6000 – 12000	19	+19	+26	5.5	1.6/1.9	9 - 15	105
EPA-160T	100 – 8000	30	+10	+23	6.0	1.3/1.6	9 - 15	120
EPA-240T	50 – 6000	37	+18	+33	5.0	1.3/1.5	12 - 15	180
EPA-250T	30 – 9000	40	+14	+26	5.3	1.2/1.3	12 - 15	150

### Low Power Amplifier GPA Series

Part Number	Frequency (MHz)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	NF (dB)	VSWR (In/Out)	DC (V)	DC (mA)
GPA-101T	4000 – 12000	18	+16	+27	5.0	2.4/1.4	11 - 18	45
GPA-102T	8000 – 16000	13	+16	+27	4.5	1.5/1.4	11 - 18	45
GPA-183F	5000 – 18000	13	+17	+25	4.8	1.3/1.3	5	145
GPA-240F	5000 – 20000	10	+17	+25	6.5	1.3/1.3	5	130
GPA-280F	20000 – 36000	24	+11	+21	3.3	1.4/2.1	5	80
GPA-512E	5000 – 12000	11	+17	+25	6.5	1.3/1.4	5	130
GPA-612E	5000 – 12000	13	+17	+25	4.8	1.3/1.5	5	145

## Low Power Amplifier LRA Series

Part Number	Frequency (MHz)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	NF (dB)	VSWR (In/Out)	DC (V)	DC (mA)
LRA-69	10 – 1000	25	+20	+33	4.0	1.3/1.5	15	125
LRA-77	5 – 600	16	+18	+32	4.0	1.5/1.4	15	56
LRA-82	10 – 300	25	+20	+31	2.8	1.5/1.6	15	50
LRA-151	3 – 600	13	+22	+34	4.5	1.5/1.6	15	85

## Medium Power Amplifier MGA Series

Part Number	Frequency (MHz)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	NF (dB)	VSWR (In/Out)	DC (V)	DC (mA)
MGA-250	225 – 275	25	+28	+41	4.5	1.5/1.1	5	470
MGA-400	40 – 850	17	+28	+45	3.0	1.5/1.4	9	330
MGA-430	400 – 470	14	+30	+44	6.5	1.3/1.2	12	360
MGA-800	400 – 1200	16	+28	+45	3.5	1.3/1.2	9	330
MGA-900	800 – 1000	15	+29	+47	8.0	1.2/-	5	700
MGA-930	800 – 1000	30	+30	+47	5.5	1.3/-	5	700
MGA-1000	700 – 1300	16	+27	+44	3.5	1.2/1.2	9	330
MGA-1600	1500 – 1700	12	+30	+43.5	6.0	1.4/1.4	5	750
MGA-1750	1500 – 2000	25	+30	+39	7.3	1.4/1.8	5	530
MGA-1850	1750 – 1950	12	+30	+47	5.5	1.7/1.6	5	750
MGA-2000	1600 – 2400	26	+27	+42	7.2	1.5/1.7	5	550
MGA-2500	2000 – 3000	24	+28.5	+42	6.0	1.7/1.9	5	480
MGA-3500	3000 – 4000	20	+27	+39	5.0	1.2/1.2	5	430
MGA-2-24	300 – 2500	24	+23	+34	5.0	1.5/1.3	12	200
MGA-4-27	50 – 4000	27	+20	+35	4.7	1.6/1.8	12	160
MGA-4-33	50 – 4500	33	+21	+35	4.5	1.4/1.8	12	160
MGA-5-30	100 – 5000	30	+20	+34	5.0	1.3/2.3	12	170
MGA-5150	4850 – 5450	20	+27	+39	6.0	1.6/-	5	900
MGA-5250	5150 – 5350	20	+27.3	+40	6.0	1.6/-	5	900
MGA-22-13	1000 – 22000	13	+22	+32	3.6	1.7/1.7	12	225

## Medium Power Amplifier MPA Series

Part Number	Frequency (MHz)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	NF (dB)	VSWR (In/Out)	DC (V)	DC (mA)
MPA-300	150 – 450	21	+36	+45	8.0	-	24	500
MPA-315	225 – 400	21	+37	+45	8.0	-	24	700
MPA-370	270 – 470	35	+36	+45	6.0	1.3/1.3	9	1650
MPA-450	300 – 600	40	+38	+46	6.0	1.4/1.4	24	880



Part Number	Frequency (MHz)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	NF (dB)	VSWR (In/Out)	DC (V)	DC (mA)
MPA-0709	700 – 900	42	+37	+47	8.0	1.2/2.0	9	1600
MPA-0850	750 – 950	40	+37	+47	6.0	2.0/2.0	9	1650
MPA-0915	902 – 928	40	+37	+47	6.0	1.3/1.5	9	1650
MPA-0925	850 – 1000	40	+37	+47	6.0	1.3/1.5	9	1650
MPA-0950	750 – 1150	28	+30	+40	6.0	2.3/1.5	12	1000
MPA-1400	1300 – 1500	32	+31.7	+41	5.5	1.3/1.6	12	1000
MPA-1600	1500 – 1700	30	+30	+41	5.5	1.3/1.5	12	970
MPA-2200	2190 – 2210	40	+33	+42	2.5	1.5/1.5	9	670
MPA-10-40	1 – 1000	40	+30	+40	3.3	1.3/1.2	12	360
MPA-12-30	30 – 1200	30	+30	+41	4.0	1.4/1.2	12	360
MPA-22-30	30 – 2200	30	+30	+41	4.2	1.4/1.2	12	415
MPA-24-05	2400 – 2500	23	+29	+38	5.0	1.5/1.8	5	450
MPA-24-10	2400 – 2500	23	+29	+38	5.0	1.5/1.8	12	450
MPA-36-23	3200 – 4000	23	+33	+42	7.5	1.8/1.3	5	1300
MPA-36-35	3200 – 4000	35	+32	+42	6.0	1.3/1.3	5	1300
MPA-40-40	20 – 1000	40	+36	+44	6.0	1.5/1.5	24	630
MPA-54-30	4800 – 6000	30	+30	+39	6.0	1.4/2.7	12	550
MPA-58-30	5700 – 5900	30	+30	+39	6.0	1.8/2.1	12	600
MPA-75-30	6000 – 9000	30	+30	+40	6.0	1.5/3.0	12	1400

### Medium Power Amplifier MRA Series

Part Number	Frequency (MHz)	Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	NF (dB)	VSWR (In/Out)	DC (V)	DC (mA)
MRA-512	10 – 1000	18	+27	+39	6.0	1.4/1.4	15	210
MRA-2010	10 – 2600	10	+25	+33	5.0	2.0/2.0	15	180

### DC Coupled Amplifier DCA Series

Part Number	Frequency (MHz)	Power Gain (dB)	P <sub>1dB</sub> (dBm)	IP3 (dBm)	Voltage Gain (dB)	VSWR (In/Out)	DC (V)	DC (mA)
DCA-50-08	DC – 2000	8	+11	+25	5	-25dB	± 12	± 45
DCA-50-14	DC – 1500	14	+11	+25	10	-23dB	± 12	± 45
DCA-50-20	DC – 50	20	+14	+24	20	1.1/1.15	12	45
DCA-50-23	DC – 40	23	+14	+24	30	1.1/1.15	12	45
DCA-50-30	DC – 17	30	+14	+25	64	1.12/1.15	12	45

## High Power Amplifier HPA Series

Part Number	Frequency (MHz)	Gain (dB)	P <sub>out</sub> (Watt)	P <sub>sat</sub> (Watt)	IP3 (dBm)	VSWR (Input)	DC (V)	DC (mA)
HPA-155	135 – 175	37.5	20	28	-	1.5:1	12	3200
HPA-480	440 – 520	38.5	20	28	-	1.8:1	12	2800
HPA-820	760 – 880	39.5	16	20	-	1.5:1	12	3200
HPA-850	750 – 950	40	10	16	+48	1.4:1	12	2750
HPA-900	850 – 950	40	10	16	+50	1.4:1	12	2650
HPA-900A	850 – 950	40	10	16	+48	1.4:1	12	2750
HPA-910	880 – 940	30	10	16	+50	1.5:1	12	2500
HPA-915	902 – 928	40	10	16	+50	1.4:1	12	2500
HPA-1820	1800 – 2000	30	10	17	+48	1.2:1	28	1550

## High Power Amplifier SPA Series

Part Number	Frequency (MHz)	Gain (dB)	P <sub>out</sub> (Watt)	P <sub>out</sub> (dBm)	IP3 (dBm)	VSWR (Input)	DC (V)	DC (mA)
SPA-775	700 – 850	43	10	+40	+49	1.3:1	12	2750
SPA-800	700 – 900	43	10	+40	+49	1.3:1	12	2700
SPA-850	750 – 950	43	10	+40	+49	1.3:1	12	2500
SPA-860	760 – 960	40	10	+40	+50	1.3:1	12	2750
SPA-915	902 – 928	40	10	+40	+50	1.2:1	12	2850
SPA-925	900 – 950	40	10	+40	+50	1.2:1	12	2750

## Custom Frequency Divider/Prescaler FBS Series (N=8 to 511)

Part Number	Input Frequency (MHz)	Function Divide Ratio	Input Power (dBm)	Output Power (dBm)	100KHz SSB Phase Noise (dBc/Hz)	DC Voltage (V)	DC Current (mA)
FBS-N-7	200 – 7000	÷ N	-20 to +5	+4	-150	5	160
FBS-N-10	4000 – 10000	÷ N	-20 to +5	+4	-150	5	160

## Custom Frequency Divider/Prescaler FAS/FCS/FDS Series (N=2 to 256)

Part Number	Input Frequency (MHz)	Function Divide Ratio	Input Power (dBm)	Output Power (dBm)	100KHz SSB Phase Noise (dBc/Hz)	DC Voltage (V)	DC Current (mA)
FAS-N	0.1 – 50	÷ N	-20 to +17	+12	-144	12	70
FCS-N	0.1 – 50	÷ N	-20 to +17	TTL/CMOS	-144	12	70
FDS-N	DC – 50	÷ N	TTL/CMOS	TTL/CMOS	-144	12	70

## Frequency Divider/Prescaler FPS Series

Part Number	Input Frequency (MHz)	Function Divide Ratio	Input Power (dBm)	Output Power (dBm)	100KHz SSB Phase Noise (dBc/Hz)	DC Voltage (V)	DC Current (mA)
FPS-2-18	200 – 18000	÷ 2	-15 to +10	-4	-150	12	80
FPS-2-20	100 – 20000	÷ 2	-9 to +10	0	-153	5	160
FPS-4-18	200 – 18000	÷ 4	-15 to +10	-4	-150	12	100
FPS-4-20	100 – 20000	÷ 4	-9 to +10	0	-153	5	170
FPS-4-26	10000 – 26000	÷ 4	-9 to +10	0	-153	5	170
FPS-5-15	100 – 15000	÷ 5	-19 to +10	+3	-153	5	205
FPS-6-15	100 – 15000	÷ 6	-20 to +10	+4	-153	5	205
FPS-7-15	100 – 15000	÷ 7	-23 to +10	+4	-153	5	205
FPS-8-18	200 – 18000	÷ 8	-15 to +10	-4	-150	12	105
FPS-8-20	100 – 20000	÷ 8	-9 to +10	0	-153	5	175
FPS-9-15	100 – 15000	÷ 9	-17 to +10	+4	-153	5	205
FPS-2-12	100 – 12500	÷ 2	-15 to +10	+4	-145	12	105
FPS-4-13	100 – 13000	÷ 4	-15 to +10	+5	-151	12	120
FPS-6-12	100 – 12500	÷ 6	-15 to +10	-1	-144	12	175
FPS-8-12	100 – 12000	÷ 8	-15 to +10	-6	-153	12	70
FPS-10-12	100 – 12000	÷ 10	-15 to +10	-1	-144	12	185
FPS-12-13	100 – 13000	÷ 12	-15 to +10	-1	-145	12	185
FPS-20-13	100 – 13000	÷ 20	-15 to +10	-1	-145	12	195
FPS-24-12	100 – 12000	÷ 24	-15 to +10	-1	-147	12	140
FPS-40-12	100 – 12000	÷ 40	-15 to +10	-1	-147	12	150
FPS-3-8	100 – 8000	÷ 3	-12 to +12	-1	-153	12	70
FPS-5-8	100 – 8000	÷ 5	-12 to +12	-1	-153	12	80
FPS-9-8	100 – 8000	÷ 9	-12 to +12	-1	-147	12	170
FPS-15-8	100 – 8000	÷ 15	-12 to +12	-1	-147	12	150
FPS-25-8	100 – 8000	÷ 25	-12 to +12	-1	-147	12	160
FPS-64-8	800 – 8000	÷ 64	-10 to +10	0	-144	12	75
FPS-72-8	800 – 8000	÷ 72	-10 to +10	0	-144	12	75
FPS-80-8	800 – 8000	÷ 80	-10 to +10	-1.5	-144	12	70
FPS-128-8	800 – 8000	÷ 128	-10 to +10	0	-144	12	75
FPS-136-8	800 – 8000	÷ 136	-10 to +10	0	-144	12	75
FPS-160-8	800 – 8000	÷ 160	-10 to +10	0	-144	12	70
FPS-256-8	800 – 8000	÷ 256	-10 to +10	0	-144	12	75
FPS-264-8	800 – 8000	÷ 264	-10 to +10	-1	-144	12	75
FPS-320-8	800 – 8000	÷ 320	-10 to +10	-1.5	-144	12	70
FPS-512-8	800 – 8000	÷ 512	-10 to +10	-1	-144	12	75
FPS-520-8	800 – 8000	÷ 520	-10 to +10	-1	-144	12	75
FPS-640-8	800 – 8000	÷ 640	-10 to +10	-1.5	-144	12	70

Part Number	Input Frequency (GHz)	Function Divide Ratio	Input Power (dBm)	Output Power (dBm)	100KHz SSB Phase Noise (dBc/Hz)	DC Voltage (V)	DC Current (mA)
FPS-1016-8	800 – 8000	÷1016	-10 to +10	-1.5	-144	12	70
FPS-1024-8	800 – 8000	÷1024	-10 to +10	-1.5	-144	12	70
FPS-2040-8	800 – 8000	÷2040	-10 to +10	-1.5	-144	12	70
FPS-45-6	500 – 6000	÷45	-12 to +12	0	-144	12	85
FPS-50-6	500 – 6000	÷50	-12 to +12	0	-144	12	85
FPS-85-6	500 – 6000	÷85	-12 to +12	0	-144	12	85
FPS-100-6	500 – 6000	÷100	-12 to +12	-1.5	-144	12	85
FPS-165-6	500 – 6000	÷165	-12 to +12	-1.5	-144	12	85
FPS-200-6	500 – 6000	÷200	-12 to +12	-1.5	-144	12	85
FPS-325-6	500 – 6000	÷325	-12 to +12	-1	-144	12	85
FPS-400-6	500 – 6000	÷400	-12 to +12	-1.5	-144	12	85
FPS-635-6	500 – 6000	÷635	-12 to +12	-1	-144	12	85
FPS-1275-6	500 – 6000	÷1275	-12 to +12	-1	-144	12	85
FPS-1280-6	500 – 6000	÷1280	-12 to +12	-1	-144	12	85
FPS-16-4	400 – 4000	÷16	-10 to +10	-1	-144	12	75
FPS-27-4	300 – 4000	÷27	-12 to +12	0	-144	12	75
FPS-30-4	300 – 4000	÷30	-12 to +12	-1.5	-144	12	75
FPS-32-4	400 – 4000	÷32	-10 to +10	0	-144	12	75
FPS-36-4	400 – 4000	÷36	-10 to +10	0	-144	12	75
FPS-48-4	300 – 4000	÷48	-10 to +10	0	-144	12	75
FPS-51-4	300 – 4000	÷51	-10 to +10	0	-144	12	75
FPS-60-4	300 – 4000	÷60	-10 to +10	-1.5	-144	12	75
FPS-68-4	400 – 4000	÷68	-10 to +10	0	-144	12	75
FPS-96-4	300 – 4000	÷96	-12 to +12	-1	-144	12	75
FPS-99-4	300 – 4000	÷99	-12 to +12	-1	-144	12	75
FPS-120-4	300 – 4000	÷120	-12 to +12	-1.5	-144	12	75
FPS-132-4	400 – 4000	÷132	-10 to +10	-1	-144	12	75
FPS-192-4	300 – 4000	÷192	-12 to +12	-1	-144	12	75
FPS-195-4	300 – 4000	÷195	-12 to +12	-1	-144	12	75
FPS-240-4	300 – 4000	÷240	-12 to +12	-1.5	-144	12	75
FPS-260-4	400 – 4000	÷260	-12 to +12	-1	-144	12	75
FPS-381-4	300 – 4000	÷381	-10 to +10	-1	-144	12	75
FPS-384-4	300 – 4000	÷384	-10 to +10	-1	-144	12	75
FPS-508-4	400 – 4000	÷508	-10 to +10	-1	-144	12	75
FPS-765-4	300 – 4000	÷765	-12 to +12	-1	-144	12	75
FPS-768-4	300 – 4000	÷768	-12 to +12	-1	-144	12	75
FPS-1020-4	400 – 4000	÷1020	-10 to +10	-1	-144	12	75

## Frequency Doubler FDR/QDR Series

Part Number	Input Frequency (MHz)	Output Frequency (MHz)	Input Power (dBm)	Conversion Loss (dB)	Harmonic Output F <sub>0</sub> (dBc)	Harmonic Output F <sub>3</sub> (dBc)	Harmonic Output F <sub>4</sub> (dBc)
FDR-1-2	10 – 1000	20 – 2000	+12 to +16	15	35	42	20
FDR-2-4	850 – 2000	1700 – 4000	+10 to +20	15	45	52	40
FDR-3-6	1250 – 3000	2500 – 6000	+10 to +20	15	40	45	42
FDR-4-8	2000 – 4000	4000 – 8000	+10 to +15	13	33	42	40
FDR-8-16	4000 – 8000	8000 – 16000	+10 to +15	16	41	46	40
QDR-1	850 – 2000	1700 – 4000	+10 to +20	15	45	52	40
QDR-2	1250 – 3000	2500 – 6000	+10 to +20	15	40	45	42
QDR-3	2000 – 4000	4000 – 8000	+10 to +15	13	33	42	40
QDR-4	4000 – 8000	8000 – 16000	+10 to +15	16	41	46	40

## Frequency Tripler FMR/FTR Series

Part Number	Input Frequency (MHz)	Output Frequency (MHz)	Input Power (dBm)	Conversion Gain (dB)	Harmonic Output F <sub>0</sub> / F <sub>2</sub> / F <sub>4</sub> (dBc)	DC Voltage (V)	DC Current (mA)
FMR-3-1	250 - 350	750 - 1050	-3	7	40/35/55	12	105
FMR-3-2	320 - 450	960 - 1350	-3	6	40/35/40	12	105
FMR-3-3	450 - 600	1350 – 1800	-3	9	35/30/40	12	105
FMR-3-4	600 - 750	1800 - 2250	-3	4	45/30/25	12	105
FMR-3-5	700 - 1000	2100 - 3000	0	12	25/25/40	12	150
FMR-3-6	1000 - 1500	3000 - 4500	+9	0	20/20/30	12	150
FTR-835	274 - 284	822 - 852	0	10	93/89/88	12	150
FTR-880	289 - 299	867 - 897	0	9.5	93/103/100	12	150
FTR-915	300 - 310	900 - 930	0	13	60/85/100	12	150
FTR-945	310 - 320	930 - 960	0	11.5	30/60/72	12	150
FTR-1845	600 - 630	1800 - 1890	0	12	35/43/65	12	160
FTR-2450	800 - 833	2400 - 2499	0	12	25/42/78	12	160

## Frequency Multiplier X5 FVR Series

Part Number	Input Frequency (MHz)	Output Frequency (MHz)	Input Power (dBm)	Conversion Gain (dB)	Harmonic Output F <sub>0</sub> /F <sub>2</sub> /F <sub>4</sub> /F <sub>6</sub> (dBc)	DC Voltage (V)	DC Current (mA)
FVR-835	164 - 170	820 - 850	0	2	90/85/95/98	12	150
FVR-880	173 - 179	865 - 895	0	2	90/83/96/97	12	150
FVR-915	180 - 186	900 - 930	0	2	60/48/95/98	12	150
FVR-945	186 - 192	930 - 960	+3	-3	33/34/62/87	12	150
FVR-1845	360 - 378	1800 - 1890	-5	7.5	40/30/45/65	12	170
FVR-2450	480 - 500	2400 - 2500	0	9	31/37/72/83	12	160



## Frequency Mixer MXR Series

Part Number	Frequency LO/RF (MHz)	Frequency IF (MHz)	LO Level (dBm)	Conversion Loss (dB) Mid-Band	Conversion Loss (dB) Max.	Isolation LO/RF (dB) Mid-Band	Isolation LO/IF (dB) Mid-Band	Input IP3 (dBm) Mid-Band
MXR-5	0.5 - 500	DC – 500	+10	6.5	8.2	55	45	+15
MXR-5E	2 - 500	DC – 500	+7	6.0	8.0	45	45	+16
MXR-5J	2 - 500	DC – 500	+10	6.0	8.0	45	45	+16
MXR-10	5 – 1000	DC – 1000	+7	7.0	8.0	47	45	+20
MXR-10L	10 – 1000	DC – 800	+4	7.2	8.2	60	33	+16
MXR-10M	5 – 1000	DC – 1000	+13	7.0	9.5	39	30	+21
MXR-12M	10 – 1200	DC – 1200	+13	8.0	8.5	45	42	+22
MXR-15	5 – 1500	DC – 1000	+7	7.5	9.3	40	40	+15
MXR-17H	100 – 1700	50 – 1500	+17	7.0	8.5	34	35	+25
MXR-20	350 – 2000	DC – 400	+7	7.0	9.2	36	29	+13
MXR-25	1400 – 2500	DC – 500	+7	7.5	9.0	30	25	+13
MXR-25DM	40 – 2500	DC – 1000	+13	8.0	9.0	37	35	+26
MXR-25H	80 – 2500	1 – 1000	+17	8.0	8.6	37	33	+30
MXR-25M	5 – 2500	5 – 1500	+13	8.5	9.8	34	32	+18
MXR-25W	10 – 2500	10 – 2500	+17	7.2	9.0	42	34	+27.5
MXR-27	1 – 2700	1 – 2000	+10	7.0	9.5	39	36	+20
MXR-27H	1 – 2700	1 – 2000	+17	7.0	9.5	38	31	+27.8
MXR-35M	5 – 3500	5 – 2500	+13	8.9	10.5	38	28	+18
MXR-36H	1500 – 3600	DC – 600	+17	8.0	9.0	30	34	+25
MXR-42M	5 – 4200	5 – 3500	+13	9.8	11.5	29	26	+17
MXR-42T	800 – 4200	DC – 3500	+13	9.0	10.8	35	18	+19
MXR-45M	1500 – 4500	DC – 1500	+13	8.5	10.0	40	35	+19
MXR-60H	2500 – 6000	DC – 2500	+17	8.5	9.7	20	14	+25
MXR-60M	2500 – 6000	DC – 1500	+13	8.5	9.5	28	14	+19
MXR-90M	4500 – 9000	DC – 2500	+13	8.5	10.0	25	25	+21
MXR-150M	9000 – 15000	DC – 2500	+13	8.0	11.0	40	17	+17

## Frequency Mixer GXR Series

Part Number	Frequency LO/RF (MHz)	Frequency IF (MHz)	LO Level (dBm)	Conversion Loss (dB)	Isolation LO/RF (dB)	Isolation LO/IF (dB)	Isolation RF/IF (dB)	Input IP3 (dBm)
GXR-1	2000 - 18000	DC – 4000	+13	10	38	20	15	+20
GXR-2	3000 - 10000	DC – 4000	+17	9	55	42	20	+23
GXR-3	5500 - 14000	DC – 6000	+15	7	45	25	14	+20
GXR-4	6000 - 26000	DC – 8000	+13	9	37	37	11	+22
GXR-5	7000 - 14000	DC – 5000	+13	8	45	36	30	+22

Part Number	Frequency LO/RF (GHz)	Frequency IF (GHz)	LO Level (dBm)	Conversion Loss (dB)	Isolation LO/RF (dB)	Isolation LO/IF (dB)	Isolation RF/IF (dB)	Input IP3 (dBm)
GXR-6	7000 - 34000	DC – 8000	+15	11	35	40	20	+22
GXR-7	11000 - 20000	DC – 6000	+13	8	46	40	25	+18
GXR-8	14000 - 26000	DC – 8000	+13	9	35	35	30	+20
GXR-9	16000 - 30000	DC – 8000	+13	10	40	34	30	+21
GXR-10	24000 - 32000	DC – 8000	+13	11	38	40	30	+18
GXR-11	4500 - 6000	DC – 1500	+7	8	28	23	20	+13
GXR-12	5000 - 12000	DC – 4000	+10	9	18	20	20	+21
GXR-13	800 - 2000	DC – 500	+10	9	40	30	22	+16
GXR-14	1500 – 4500	DC – 1500	+13	8.5	40	35	20	+19
GXR-15	4500 – 9000	DC – 2500	+13	9	25	25	20	+21
GXR-16	9000 – 15000	DC – 2500	+13	8.5	40	40	17	+17

### Power Splitter/Combiner 2-Way 0° Resistive PSC-2R Series

Part Number	Frequency (MHz)	Insertion Loss Above 6dB (dB) Mid-Bnad/Max	Isolation Low-Band (dB)	Isolation Upp-Band (dB)	Amplitude Unbalance (dB) max	Phase Unbalance (°) max	Input Power (dBm)
PSC-2R-42	DC - 4200	0.1/0.5	6.2	7.0	0.5	5	+30
PSC-2R-70	DC - 7000	0.2/0.6	6.6	7.2	0.6	5	+30

### Power Splitter/Combiner 2-Way 0° PSC-2 Series

Part Number	Frequency (MHz)	Insertion Loss Above 3dB (dB) Mid-Bnad/Max	Isolation Mid-Band (dB)	Isolation Min. (dB)	Amplitude Unbalance (dB) max	Phase Unbalance (°) max	Input Power (dBm)
PSC-2-6	1 - 650	0.3/0.8	30	20	0.3	3	+33
PSC-2-10	5 - 1000	0.4/0.9	23	15	0.3	3	+27
PSC-2-20	20 - 2000	0.7/1.0	18	15	0.7	5	+30
PSC-2-0809	820 - 960	0.4/0.6	23	15	0.1	1.5	+30
PSC-2-1516	1510 - 1660	0.4/0.6	20	15	0.1	3	+30
PSC-2-1719	1510 - 1660	0.3/0.5	20	15	0.1	4	+30
PSC-2-1819	1850 - 1990	0.5/0.6	21	15	0.1	3	+30
PSC-2-2225	2200 - 2500	0.3/0.5	20	15	0.1	5	+30

### Directional Coupler DCR Series

Part Number	Frequency (MHz)	Mainline Loss (dB)	Coupling (dB)	Flatness (dB)	Directivity (dB)	VSWR	Input Power (dBm)
DCR-10-4	5 - 1000	0.9	10.5	± 1	35	1.2:1	+30
DCR-15-4	5 - 1000	0.7	15.5	± 0.5	22	1.2:1	+30
DCR-20-4	5 - 1000	0.6	20.0	± 0.8	21	1.2:1	+30

## Phase Detector with Loop Filter PDF Series

Part Number	Frequency (MHz)	Input Power (dBm)	Output (V)	Bandwidth (KHz)	Phase Noise (dBc/Hz@1KHz)	DC Power (V)	Current (mA)
PDF-100	3 - 300	-10 to +17	0.1 to 4.9	10	-85	12	175
PDF-150	200 - 800	-7 to +10	0.1 to 4.9	10	-92	12	90
PDF-200	5 - 30	-3 to +17	0.1 to 4.9	10	-90	12	20

## Oven Controlled Crystal Oscillator OCXO Series

Part Number	Frequency (MHz)	Temp Stability (ppm)	Output Power (dBm)	Operating Temp (C°)	Phase Noise (dBc/Hz@1KHz)	DC Power (V)	Current (mA)
OCXO-100M	100	± 0.5	+7	-40 to +65	-151	12	350

## Temperature Compensated Crystal Oscillator TCXO Series

Part Number	Frequency (MHz)	Temp Stability (ppm)	Output Format	Operating Temp (C°)	Phase Noise (dBc/Hz@1KHz)	DC Power (V)	Current (mA)
TCXO-10M	10	± 2.5	HCMOS	-30 to +75	-145	9 - 15	10
TCXO-20M	20	± 2.5	HCMOS	-30 to +75	-145	9 - 15	10

## Phase Locked Oscillator PLO Series

Part Number	RF Output Frequency (MHz)	RF Output Power (dBm)	Reference Frequency (MHz)	Reference Input Power (dBm)	Internal Divide Ratio	Phase Noise (dBc/Hz@1KHz)	DC Power (Volt/mA)
PLO-1000N	997 - 1003	+17	9.97 – 10.03	-7 to +17	100	-97	12/370
PLO-1050	900 - 1200	+17	9 - 12	+3 to +17	100	-97	12/300
PLO-1540	1435 - 1650	+17	8.97 - 10	+3 to +17	165	-95	12/300
PLO-2050	1950 - 2150	+17	9.75 – 10.75	+3 to +17	200	-93	12/300
PLO-2275	2150 - 2400	+17	8.95 – 10	+3 to +17	240	-92	12/300
PLO-2375	2300 - 2450	+17	9.58 – 10.21	+3 to +17	240	-92	12/300
PLO-2400N	2399 - 2401	+17	9.99 – 10.01	-7 to +17	240	-95	12/370
PLO-3000N	2990 - 3010	+17	9.97 – 10.03	-7 to +17	300	-95	12/370
PLO-3300	3200 - 3400	+15	9.84– 10.46	+3 to +17	325	-92	12/300
PLO-3500N	3497 - 3503	+17	9.99 – 10.01	-7 to +17	350	-90	12/370
PLO-5300	5150 - 5400	+13	9.9– 10.4	+3 to +17	520	-78	12/315

## Voltage Controlled Oscillator VCO Series

Part Number	Output Frequency (MHz)	Tuning Voltage (Volt)	Tuning Sensitivity (MHz/V)	Output Power (dBm)	SSB Phase Noise (dBc/Hz@10KHz)	DC Power (V)	Current (mA)
VCO-0235	175 - 300	1 - 10	24	+10	-105	12	20
VCO-0350	330 - 370	0.5 - 4.5	14	+5	-97	12	18
VCO-0625	575 - 675	0.5 - 4.5	43	+1	-112	12	30
VCO-0964	951 - 977	1 - 4	13	+5	-112	12	15
VCO-1050	900 - 1200	1 - 8	60	+11	-100	12	28
VCO-1140	1070 - 1210	0.5 - 4.5	37	+1.5	-109	12	20
VCO-1525	1500 - 1550	0.3 - 4.7	25	+0.5	-110	12	30
VCO-1540	1435 - 1650	0.5 - 5	80	+7	-90	12	15
VCO-1700	1550 - 1850	0.25 - 4.75	85	+1.5	-99	12	15
VCO-1713	1683 - 1743	1.5 - 8	22	+5	-108	12	25
VCO-1720	1430 - 2010	2 - 14	68	+6	-98	12	18
VCO-2050	1950 - 2150	0.5 - 4.5	72	+5	-96	12	20
VCO-2100	2050 - 2150	0.5 - 4.5	36	+4	-106	12	27
VCO-2200	2150 - 2240	0.5 - 4.5	36	+4	-105	12	28
VCO-2265	2165 - 2360	0.5 - 10	56	+5	-99	12	25
VCO-2375	2300 - 2450	0.5 - 4.5	50	+3	-101	12	30
VCO-2800	2700 - 2900	0.5 - 4.5	75	+5	-95	12	18
VCO-2945	2900 - 2990	0.5 - 4.5	36	+1	-100	12	30
VCO-3000	2960 - 3030	0.5 - 4.5	33	+1	-105	12	30
VCO-3300	3200 - 3400	0.5 - 4.5	98	+5	-88	12	22
VCO-5320	5220 - 5420	0.5 - 4.5	108	-1	-83	12	15

## Block Down Converter BDC Series

Part Number	RF Input Frequency (MHz)	RF Output Frequency (MHz)	Max Input Power (dBm)	Conversion Gain (dB)	SSB Phase Noise (dBc/Hz@10KHz)	Internal LO Freq (MHz)	DC Power (V/mA)
BDC-1800	1800 - 3600	DC - 1800	-5	-3 to +7	-93	1800	12/350
BDC-1950	1950 - 3900	DC - 1950	-5	-3 to +7	-93	1950	12/350
BDC-2400	2400 - 4800	DC - 2400	-5	-3 to +7	-92	2400	12/350
BDC-3200	3200 - 6400	DC - 3200	-7	-5 to +5	-80	3200	12/300

## Bandpass Filter BPF Series

Part Number	Center Frequency (MHz)	Passband (MHz)	Insertion Loss (dB)	Rejection Frequency F <sub>L</sub> (dB@MHz)	Rejection Frequency F <sub>H</sub> (dB@MHz)	VSWR (In/Out)	Max Input (dBm)
BPF-45X	45	F0±5KHz	12	40@44.996	30@45.004	5.0/5.0	+20
BPF-70S	70	69.6 – 70.4	4.8	35@68.6	35@71.4	2.0/2.0	+30
BPF-315S	315	314 – 316	3.0	53@310	45@320	1.5/1.5	+10
BPF-325S	325	321.5 – 328.5	3.0	60@280	60@370	1.5/1.5	+20
BPF-850L	850	700 - 1000	2.0	40@400	40@1500	2.0/2.0	+39
BPF-905S	905	892 - 918	2.0	35@860	35@950	1.8/1.8	+20
BPF-915C	915	902 - 928	1.5	45@800	40@1000	2.0/2.0	+33
BPF-915S	915	902 - 928	1.8	60@870	38@960	1.4/1.4	+15
BPF-935S	935	920 - 950	3.5	30@890	47@980	2.0/2.0	+20
BPF-950L	950	700 - 1200	2.0	57@200	42@2450	2.0/2.0	+39
BPF-1150L	1150	700 - 1600	2.0	57@200	40@2200	2.0/2.0	+39
BPF-1350L	1350	700 - 2000	2.0	60@100	44@2450	2.0/2.0	+39
BPF-1575S	1575	1565 - 1585	1.8	45@1515	55@1635	1.1/1.1	+20
BPF-1960S	1960	1930 - 1990	1.8	30@1870	30@2050	1.8/1.8	+20




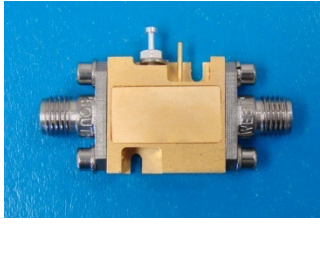
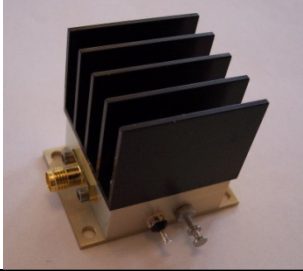

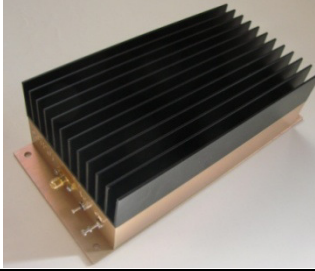
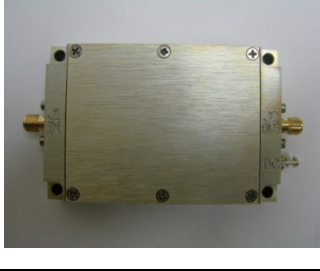
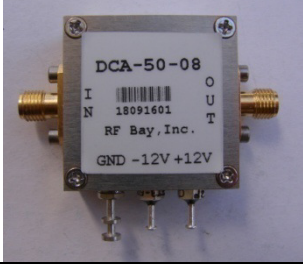
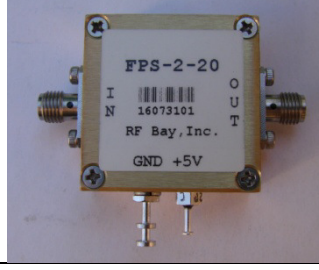
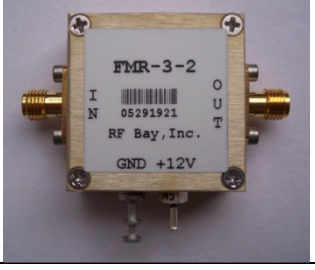
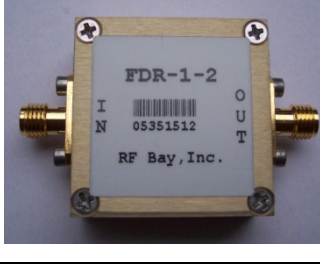
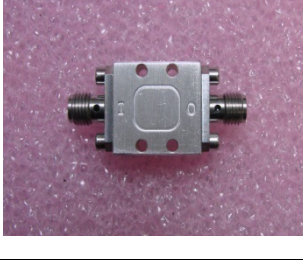
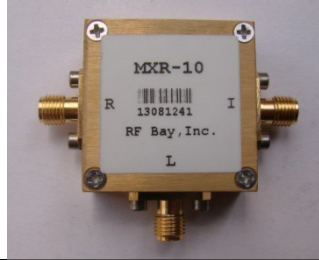



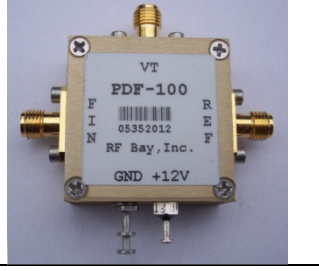




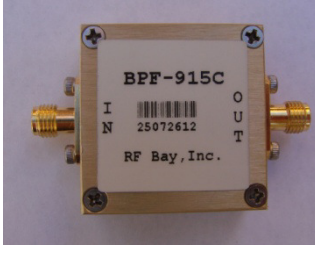

## RF Power Detector RPD Series

Part Number	Input Frequency (MHz)	Dynamic Range (dB)	Output Voltage(V)	Output Slope	Response Time (μs)	VSWR (Input)	DC Power (V/mA)
RPD-5501	50 - 5000	30	0.1 - 5	Positive	7	1.4:1	5V/2mA
RPD-5513	30 - 4000	80	0.5 - 2	Positive	0.2	1.5:1	5V/30mA
RPD-5534	50 - 3000	60	0.1 – 2.5	Positive	0.3	1.3:1	5V/12mA

## RF Switch RFS Series

Part Number	Frequency (MHz)	Insertion Loss (dB)	Isolation (dB)	Maximum Input (dBm)	Control Voltage	Response Time (μs)	VSWR	DC Power (V)
RFS-1	30 - 530	1	50	+37	0V/5V	0.14	1.2:1	5V
RFS-2	50 - 1500	1	50	+36	0V/5V	1.5	1.2:1	5V



<b>LNA/LPA/LRA Series</b>  <p>LNA-580 IN 12062871 RF Bay, Inc. GND +5V</p>	<b>ENA/EPA Series</b>  <p>ENA-200T IN 12150001 RF Bay, Inc. +12V+15V</p>	<b>GNA/GPA Series</b>  <p>GND +12V GNA-105T IN 132701 RF Bay, Inc.</p>	<b>XNA Series</b> 
<b>MGA/MRA Series</b> 	<b>MPA Series</b> 	<b>HPA Series</b> 	<b>SPA Series</b> 
<b>DCA Series</b>  <p>DCA-50-08 IN 18091601 RF Bay, Inc. GND -12V+12V</p>	<b>FBS/FAS/FDS/FPS Series</b>  <p>FPS-2-20 IN 16073101 RF Bay, Inc. GND +5V</p>	<b>FMR/FVR Series</b>  <p>FMR-3-2 IN 05291921 RF Bay, Inc. GND +12V</p>	<b>FDR Series</b>  <p>FDR-1-2 IN 05351512 RF Bay, Inc.</p>
<b>QDR Series</b> 	<b>MXR Series</b>  <p>MXR-10 R 13081241 RF Bay, Inc. L</p>	<b>GXR Series</b> 	<b>PSC Series</b>  <p>PSC-2-10 1 04521488 2 RF Bay, Inc. S</p>
<b>DCR Series</b>  <p>DCR-10-4 IN 20112601 RF Bay, Inc. CPL</p>	<b>PDF Series</b>  <p>VT PDF-100 IN 05352012 RF Bay, Inc. GND +12V</p>	<b>PLO Series</b>  <p>REF PLO-1050 RF OUT IN 20992711 RF Bay, Inc. VCO+12V www.rfbayinc.com</p>	<b>BDC Series</b>  <p>BDC-2400 IN 2091903 RF Bay, Inc. VCO+12V www.rfbayinc.com</p>
<b>TCXO Series</b>  <p>TCXO-10M IN 40141801 RF Bay, Inc. GND +12V</p>	<b>VCO Series</b>  <p>VCO-2200 OUT 17054821 RF Bay, Inc. GND +12V</p>	<b>BPF Series</b>  <p>BPF-915C IN 25072612 RF Bay, Inc.</p>	<b>RPD Series</b>  <p>RPD-5513 IN 12091631 RF Bay, Inc. GND +5V</p>