




NJRC GaAs device
For data sheet please click on part number

Amplifier IC | GNSS

PART No.	Applications	Gain typ.	NF typ.	P-1dB typ.	IIP3 typ.	Frequency	Operating	Current	Package Size	Package	Notes
		[dB]	[dB]	[dBm]	[dBm]	Range[MHz]	voltage[V]	typ.[mA]	typ.[mm]	Outline	
NJG1107HB3	GNSS	17	1,1		-4	1575	2,7	2,5	1.5x1.5x0.75	USB8-B3	
NJG1107HB6	GNSS	17	1,1		-4	1575	2,7	2,5	1.5x1.5x0.55	USB8-B6	
NJG1107KB2	GNSS	17	1,2		-4	1500		3			
		15	1,2		-2	1900		3			
		14	1,3		-1,5	2400	2,7	3	2.1x2.0x0.75	FLP6-B2	
NJG1108HA8	GNSS/ WLAN/ WIMAX	19	1	-15	0	1575	2,7	2	1.0x1.2x0.38	USB6-A8	Stand-by function
NJG1117HA8	GNSS	19,5	0,7	-16,5	-2	1575	2,7	3	1.0x1.2x0.38	USB6-A8	
 NJG1144KA1	GNSS	21/18	0.65/0.85	-16.5/-18.5	-2/-6	1575	2.85/1.8	3.5/1.8	1.6x1.6x0.55	FLP6-A1	
NJG1144UX2	GNSS	21/18	0.65/0.85	-16.5/-18.5	-2/-6	1575	2.85/1.8	3.5/1.8	0.65x0.65x0.37	EPFFP4-X2	
 NJG1143UA2	GNSS	20/19	0.7/0.75	-16.5/-19.5	-2/-6	1575	2.85/1.8	4/3	1.0x1.0x0.37	EPFFP6-A2	Stand-by function
 NJG1150UA2	GNSS	16/16	0.6/0.6	-7/-9	1/-1	1575	2.8/1.8	4.9/4.2	1.0x1.0x0.37	EPFFP6-A2	Stand-by function
NNJG1155UX2	GNSS	19/18.5	0.75/0.75	-12.5/-16	-1.5/-5	1575	2.8/1.8	3.5/3.1	1.1x0.7x0.37	EPFFP6-X2	Stand-by function
NJG1130KA1	GNSS	29	0,65	+11(out)	+14(OIP3)	1575	2.85	5	1.6x1.6x0.6	FLP6-A1	

Amplifier IC | Digital Mobile TV

PART No.	Applications	Gain typ.		NF typ.	P-1dB typ.		IIP3 typ.		Frequency	Operating	Current		Package Size	Package	Notes
		[dB]		[dB]	[dBm]		[dBm]		Range[MHz]	voltage[V]	typ.[mA]		typ.[mm]	Outline	
		H	L		H	L	H	L		H	L				
NJG1129MD7	Digital Mobile TV	15	-4	1,4	-6	12	1	20	470-770	2,8	5	16µA	1.6x1.6x0.39	EQFN14-D7	
NJG1131HA8	Digital Mobile TV	10		1,4	-5		5		470-770	2,7	3,4		1.0x1.2x0.38	USB6-A8	
NJG1134HA8	Digital Mobile TV	10	-0.6	1,2	-5		5	23	470-770	2,8	4	10µA	1.0x1.2x0.38	USB6-A8	
NJG1139UA2	Digital Mobile TV	14	-2	1,2	-12	15	-4	30	470-770	1,8	3,5	11µA	1.0x1.0x0.37	EPFFP6-A2	
NJG1142KA1	Digital Mobile TV	14	-1	1,5	0	17	2	22	170-900	2.8/1.8	6	11µA	1.6x1.6x0.55	FLP6-A1	

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Amplifier IC | TV tuner/STB

	PART No.	Applications	Gain typ.		NF typ.	P-1dB typ.		IIP3 typ.		Frequency	Operating	Current		Package Size	Package	Notes
			[dB]		[dB]	[dBm]		[dBm]		Range[MHz]	voltage[V]	typ.[mA]		typ.[mm]	Outline	
			H	L		H	L	H	L			H	L			
	NJG1140KA1	TV tuner/STB	9		2,5	7		9		50-2150	3,3	10		1.6x1.6x0.55	FLP6-A1	
New	NJG1145UA2	TV tuner/STB	15	-1	1,5	0	15	10	30	90-2150	2,8	20	11µA	1.0x1.0x0.37	EPFFP6-A2	
New	NJG1146KG1	TV tuner/STB	12	-1	2,2	6	16	22	33	40-900	5	60	30µA	1.6x1.6x0.397	ESON6-G1	
	NJG1151MD7	TV tuner/STB	6		2,5	7		20		40-1000	5	100		1.6x1.6x0.397	EQFN14-D7	
	NJG1152KA1	TV tuner/STB	18	-1	0,9	-5	15	7	30	40-900	3,3	20	17µA	1.6x1.6x0.55	FLP6-A1	

Amplifier IC | 3G/LTE


	PART No.	Applications	Gain typ.		NF typ.		P-1dB typ.		IIP3 typ.		Frequency	Operating	Current		Package Size	Package
			[dB]		[dB]		[dBm]		[dBm]		Range[MHz]	voltage[V]	typ.[mA]		typ.[mm]	Outline
			H	L	H	L	H	L	H	L			H	L		
	NJG1126HB6	3G/LTE/WLAN/WiMAX	16,5	-7	1,4	7	-11	-12	0	16	2140	2,7	2,2	1µA	1.5x1.5x0.55	USB8-B6
	NJG1127HB6	3G/LTE	15	-2,5	1,4	2,5	9	8	11	19	800	2,8	10	1µA	1.5x1.5x0.55	USB8-B6
	NJG1128HB6	3G/LTE	15	-3	1,4	3	9	8	11	21	460-470	2,8	10	1µA	1.5x1.5x0.55	USB8-B6
	NJG1133MD7	3G/LTE	16	-3,5	1,35	3,5	-11,5	14	0,5	12	2140				1.6x1.6x0.397	EQFN14-D7
			16	-4	1,35	4	-8	16	0	15	1860					
			16	-3	1,4	3	-9,5	17	-2	12	885					
			16	-3	1,55	3	-9	16	0	15	1495	2,8	2,3	48µA		
	NJG1135MD7	3G/LTE	16	-2,5	1,4	2,5	-4	10,5	10	19	880			1.6x1.6x0.397	EQFN14-D7	
	NJG1138HA8	3G/LTE	16	-3	1,4	3	-8,5	16	0	14	942,5	2,8	2,3	10µA	1.0x1.2x0.38	USB6-A8

New

Amplifier IC | WLAN/WiMAX

	PART No.	Applications	Gain typ.		NF typ.	P-1dB typ.		IIP3 typ.		Frequency	Operating	Current		Package Size	Package	Notes
			[dB]		[dB]	[dBm]		[dBm]		Range[MHz]	voltage[V]	typ.[mA]		typ.[mm]	Outline	
			H	L		H	L	H	L			H	L			
New	NJG1148MD7	WLAN	12,5	-5	1,5	-5	10	5	10	4900-5950	3,3	7	5µA	1.6x1.6x0.39	EQFN14-D7	

Switch Ics


PART No.	FUNCTION	P-0.1dB	Power	Loss	Isolation	Operating	Package Size	Package	Notes
		typ.[dBm]	Levels	typ.[dB]	typ.[dB]	Frequency Range	typ.[mm]	Outline	
NJG1681MD7	SPDT Switch	36	High Power	0.18@0.9GHz 0.20@1.9GHz 0.23@2.7GHz	45@0.9GHz 35@1.9GHz 30@2.7GHz	50MHz to 6GHz	1.6x1.6x0.397	EQFN14-D7	
NJG1647HD3	SPDT Switch	36	High Power	0.25@0.9GHz 0.3@1.9GHz	25@0.9GHz 20@1.9GHz	50MHz to 3GHz	2.0x1.8x0.8	USB6-D3	
NJG1669MD7	SPDT Switch	36	High Power	0.35@2.5GHz 0.40@3.5GHz 0.45@6.0GHz	28@2.5GHz 29@3.5GHz 25@6.0GHz	50MHz to 6GHz	1.6x1.6x0.397	EQFN14-D7	
NJG1660HA8	SPDT Switch	32	High Power	0.35@2.5GHz 0.45@3.5GHz 0.50@6.0GHz	33@2.5GHz 30@3.5GHz 21@6.0GHz	50MHz to 8GHz	1.0x1.2x0.38	USB6-A8	
NJG1635AHB6	SPDT Switch	34	High Power	0.30@0.9GHz 0.35@1.9GHz 0.40@2.7GHz	35@0.9/1.9GHz 33@2.7GHz	50MHz to 3GHz	1.5x1.5x0.55	USB8-B6	
NJG1649HB6	SPDT Switch	29	Middle Power	0.35@1.0GHz 0.40@2.0GHz 0.45@2.5GHz	27@1.0GHz 22@2.0GHz 20@2.5GHz	50MHz to 3GHz	1.5x1.5x0.55	USB8-B6	
NJG1615HA8	SPDT Switch	27	Middle Power	0.55@5.85GHz	25@2.5GHz	100MHz to 6GHz	1.0x1.2x0.38	USB6-A8	
NJG1608KB2	SPDT Switch	27	Middle Power	0.3@2.0GHz 0.5@2.5GHz 0.6@5.85GHz	29@2.0GHz 30@2.5GHz 18@2.5GHz	100MHz to 6GHz	2.1x2.0x0.75	FLP6-B2	
NJG1666MD7	SPDT Switch	25	Middle Power	0.40@0.25GHz 0.45@1.0GHz 0.50@2.2GHz	70@0.25GHz 60@1.0GHz 60@2.2GHz	50MHz to 3GHz	1.6x1.6x0.39	EQFN14-D7	
NJG1612HA8	SPDT Switch	24	Low Power	0.45@2.5GHz	21@2.5GHz	100MHz to 5GHz	1.0x1.2x0.38	USB6-A8	
NJG1600HB6	SPDT Switch	21	Low Power	0.45@2.0GHz 0.5@2.5GHz	20@2.0GHz 18@2.5GHz	100MHz to 3GHz	1.5x1.5x0.55	USB8-B6	
NJG1600KB2	SPDT Switch	21	Low Power	0.4@2.0GHz	22@2.0GHz	100MHz to 3GHz	2.1x2.0x0.75	FLP6-B2	
NJG1512HD3	SPDT Switch	20	Low Power	0.6@1.0GHz	44@1.0GHz	1MHz to 3GHz	2.0x1.8x0.85	USB6-D3	
NJG1682MD7	SP3T Switch	36	High Power	0.22@0.9GHz 0.25@1.9GHz 0.30@2.7GHz	35@0.9GHz 30@1.9GHz 27@2.7GHz	50MHz to 6GHz	1.6x1.6x0.39	EQFN14-D7	
NJG1650HB6	SP3T Switch	28	Low Power	0.38@1.0GHz 0.42@2.0GHz 0.45@2.5GHz	29@1.0GHz 23@2.0GHz 21@2.5GHz	50MHz to 3GHz	1.5x1.5x0.55	USB8-B6	
 NJG1650HB6	SP3T Switch		High	0.25@0.9GHz 0.30@1.9GHz	37@0.9GHz 29@1.9GHz	50MHz to			

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	NJG1684ME2	SP4T Switch	36	Power	0.35@2.7GHz	25@2.7GHz	6GHz	1.8x1.8x0.39	EQFN12-E2	
	NJG1519KC1	SP4T Switch	35	High Power	0.8@1.9GHz	18@1.9GHz	100MHz to 3GHz	2.8x3.0x0.75	FLP10-C1	
	NJG1665MD7	SP5T Switch	29	Middle Power	0.4@1.0GHz 0.5@2.0GHz 0.6@2.5GHz	29@1.0GHz 23@2.0GHz 21@2.5GHz	50MHz to 3GHz	1.6x1.6x0.39	EQFN14-D7	
New	NJG1667MD7	SP5T Switch	29	Middle Power	0.4@1.0GHz 0.5@2.0GHz 0.6@2.5GHz	29@1.0GHz 23@2.0GHz 21@2.5GHz	50MHz to 3GHz	1.6x1.6x0.39	EQFN14-D7	
	NJG1692NB2	DP4T Switch(X-SPDT)	24	Low Power	0.3@1GHz 0.35@2GHz 0.40@2.7GHz	28@1GHz 22@2GHz 19@2.7GHz	50MHz to 3GHz	1.55x1.15x0.55	EPCSP10-B2	
	NJG1690MD7	DP4T Switch(X-SPDT) High Isolation	24	Low Power	0.3@1GHz 0.4@2GHz 0.45@2.7GHz	37@2.7GHz* 29@1GHz 24@2GHz 21@2.7GHz	50MHz to 3GHz	1.6x1.6x0.39	EQFN14-D7	*with balanced mode operation
New	NJG1662MD7	DP4T Switch(X-SPDT)		Low Power	0.3@1GHz 0.4@2GHz	28@1GHz 22@2GHz	50MHz to 3GHz	1.6x1.6x0.39	EQFN14-D7	
New	NJG1655ME7	Switch(X-SP3T)	23	Low Power	0.4@1.0GHz 0.45@2.0GHz	18@2.0GHz 21@2.0GHz	50MHz to 3GHz	2.0x2.0x0.39	EQFN18-E7	
	NJG1683ME7	X-SP3T Switch(DP6T) High Isolation	23	Low Power	0.35@1.0GHz 0.45@2.0GHz 0.60@2.7GHz	55@1.0GHz* 47@2.0GHz* 45@2.7GHz*	50MHz to 3GHz	2.0x2.0x0.39	EQFN18-E7	*with balanced mode operation
	NJG1663K44	DP8T Switch(X-SP4T)	23	Low Power	0.45@1.0GHz 0.55@2.0GHz	26@1.0GHz 20@2.0GHz 17@2.7GHz	50MHz to 3GHz	2.3x2.3x0.45	QFN16-44	
New	NJG1695ME7	X-SP4T Switch(DP8T) High Isolation	23	High Power	0.45@1.0GHz 0.55@2.0GHz 0.80@2.7GHz	43@1.0GHz* 38@2.0GHz* 35@2.7GHz*	50MHz to 3GHz	2.0x2.0x0.39	EQFN18-E7	*with balanced mode operation
New	NJG1673LG3	SP9T Switch		High Power	0.40@UMTS Band5 0.60@UMTS Band2 0.70@UMTS Band1 0.85@GSM850/900 Tx 1.00@GSM1800/1900 Tx 1.0@GSM850/900	-	50MHz to 3GHz	3.2x2.5x0.85	LCSP20-G3	

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NJG1672LK4	SP9T Switch		High Power	0.9@GSM1800/1900 TX 1.0@LCR TX	50MHz to 3GHz	100MHz to 3GHz	3.8x3.8x0.9	LCSP24-K4	
NJG1670LG3	SP10T Switch		High Power	0.40@UMTS Band 5 0.45@UMTS Band 8 0.60@UMTS Band 2 0.70@UMTS Band 1 0.85@GSM850/900 Tx 1.00@GSM1800/1900 Tx	-	50MHz to 3GHz	3.2x2.5x0.85	LCSP20-G3	
NJG1686MHH	SP10T Switch		High Power	0.65@452 to 960MHz 0.30@452 to 960MHz 0.75@1710 to 2170MHz 0.45@1710 to 2170MHz 1.10@2300 to 2690MHz 0.45@2300 to 2690MHz 1.05@GSM850/900 1.20@GSM1800/1900	38@GSM850/900 34@GSM1800/1900 25@452 to 2690MHz 36@1805 to 1990MHz 33@452 to 2690MHz	50MHz to 3GHz	2.6x3.4x0.7	EQFN26-HH	
 NJG1657MD7	DPDT	35	High Power	0.3@0.9GHz 0.4@1.9GHz	32@0.9GHz 26@1.9GHz	50MHz to 3GHz	1.6x1.6x0.39	EQFN14-D7	
NJG1617K11	DPDT	31	High Power	0.75@6GHz	25@6GHz	100MHz to 6GHz	3.0x3.0x0.75	QFN12-11	
NJG1648HB6	DPDT	23	Low Power	0.20@0.5GHz 0.25@1GHz 0.40@2GHz	26@0.5GHz 21@1GHz 15@2GHz	100MHz to 3GHz	1.5x1.5x0.55	USB8-B6	