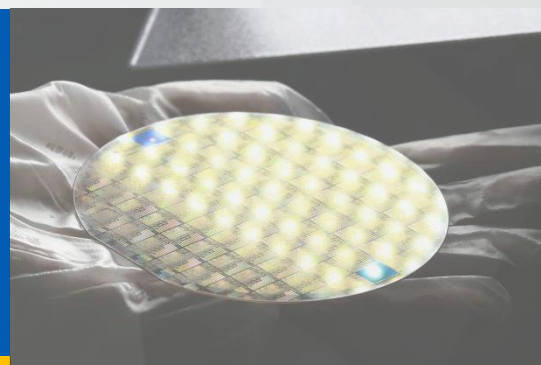




RF Components 2025



GaN PAs& HPT | Control & Core Chips | Passive Devices



NEDI Technology Co.,Ltd

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GaN Power Amplifiers

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (dBm)	G _p (dB)	G (dB)	PAE (%)	V _D (V)	I _D (A)	I _{DQ} (A)	VSWR	Mode	Dimensions (mm)
NDNC010203	0.3	2	33	20	28	26	28	0.36	0.13	1.6	CW	2.8×1.75×0.08
NDNC010001	0.3	2	33	20	28	26	28	0.36	0.13	1.6	CW	2.0×2.35×0.08
NDNC010002	0.3	2	40	13	17	40	28	0.9	0.55	2.5	CW	2.4×1.7×0.08
NDNC010004	0.3	6	33	15	17	15	48	0.37	0.18	1.6	CW	3.5×1.75×0.08
NDNC010005	0.3	6	46	20	33	25	48	2.5	1.4	2	CW	5.2×3.8×0.08
NDNC010006	0.5	4.2	34	24	27.5	22	28	0.45	0.25	2.5	CW	2.0×2.35×0.08
NDNC010008	0.8	2	44	26	35	45	48	1.2	0.8	1.7	CW	3.3×2.2×0.08
NDNC010208	1.1	1.7	35	26	35	53	24	0.3	0.11	1.8	CW	3.0×2.2×0.08
NDNC010011	1.2	1.4	44.3	26.3	10	63	28	1.52	0.1	1.12	PL	4.1×2.7×0.08
NDNC010015	2	4	46	21	28	40	28	3.5	2	1.8	CW	3.5×4.6×0.08
NDNC010014	2	6	27	12	26	27	28	0.13	0.052	1.5	CW	2.35×2×0.08
NDNC01027	2	6	43	15	25	35	28	2.6	2	2.5	CW	3.5×4.1×0.08
NDNC010214	2	6	44	19	29	36	28	3.3	2.2	2	CW	5.4×4.5×0.08
NDNC010021	2	6	44	19	30	35	28	3.5	2	1.8	CW	5.4×4.5×0.08
NDNC010020	2	6	44	20	28	33	28	3.1	2.5	2.5	CW	3.35×4.6×0.08
NDNC010024	2	6	45	18	26	35	28	4	2.4	1.6	PL/CW	3.5×4.6×0.08
NDNC01111	2	6	45	21	27	38	28	3.5	2.5	2.5	CW	3.5×4.6×0.08
NDNC010025	2	6.5	33	17	23	38	28	0.3	0.2	2.5	CW	1.4×2.15×0.09
NDNC010026	2	6.5	36	17	28.5	40	28	0.6	0.4	2.5	CW	2.15×1.4×0.08
NDNC010027	2	6.5	44	19	27	35	28	3.2	2.5	2.5	CW	3.35×4.6×0.08
NDNC01084	2	8	44	16	22	30	28	4	2.5	2.5	CW	3.5×4.6×0.08
NDNC010029	2	8.5	33	21	26	30	28	0.36	0.26	2.5	CW	2.6×1.9×0.08
NDNC010030	2	12	28	23	24	10	28	0.4	0.3	2.2	CW	3.4×2.2×0.08
NDNC010360	2	13	38	8	13	20	48	0.5	0.35	2.5	PL/CW	3.2×2.0×0.08
NDNC010032	2	18	27	15	23	15	28	0.6	0.4	2.5	CW	3.5×3.6×0.08
NDNC010361	2	18	27	15	21	15	28	0.21	0.15	2.5	CW	2.8×2.0×0.08
NDNC010033	2	18	31	17	23	15	28	0.7	0.4	2	CW	3.5×2.2×0.08
NDNC010028	2	18	31	18	24	12	28	0.5	0.35	2.5	CW	3.5×2.2×0.08
NDNC010034	2	18	35	8	12	20	28	0.9	0.6	2.5	CW	3.3×1.8×0.08
NDNC01065	2	18	40	15	23	20	28	2.2	1.2	2.5	CW	3.5×4.8×0.08
NDNC010036	2	18	40	15	23	20	28	2.2	1.2	2.5	CW	5×3.5×0.08
NDNC010349	2	18	43	16	24	20	40	2.5	1.6	2.5	CW	3.6×4.8×0.08
NDNC010219	2.2	2.3	41	21	30	62	24	0.9	0.6	1.5	CW	3.4×2.6×0.08
NDNC010038	2.2	2.3	44.5	24.5	34	59	24	2	1.24	1.5	CW	3.6×3.6×0.08
NDNC010042	2.7	3.5	43	24	35	53	28	1.4	0.75	1.2	PL	3.3×2.3×0.08

GaN Power Amplifiers (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (dBm)	G _P (dB)	G (dB)	PAE (%)	V _D (V)	I _D (A)	I _{DQ} (A)	VSWR	Mode	Dimensions (mm)
NDNC010222	2.7	3.5	43	26	34	60	28	1.15	0.95	1.5	PL/CW	3.9×2.5×0.08
NDNC010045	2.7	6.2	42	21	33	32	28	2.4	1.2	2	CW	5.4×4.5×0.08
NDNC010047	2.7	6.2	43	20	33	32	28	3	1.7	2	CW	5.4×4.5×0.08
NDNC010049	2.7	6.2	44	21	33	32	28	3.5	2	2	CW	5.4×4.5×0.08
NDNC010051	2.7	6.2	45	20	30	35	28	3.5	2.5	2.5	CW	3.5×4.6×0.08
NDNC010052	4	6	46.5	21	28	47	28	3.3	1.8	1.5	CW	4.0×4.6×0.08
NDNC010053	4	8	47	18	23	40	28	6	4.3	1.6	CW	3.6×5.6×0.08
NDNC010054	4	10	44	21	33	38	28	3.1	3.1	1.5	CW	3.8×3.1×0.08
NDNC010055	5	6	27	21	25	20	28	0.18	0.15	2	CW	1.8×1.3×0.08
NDNC010056	5	6	37	22	28	60	28	0.33	0.2	1.2	CW	2.6×2.0×0.08
NDNC010057	5	6	37	22	28	60	28	0.33	0.2	1.2	CW	2.6×2.0×0.08
NDNC010060	5	6	41	17	26	53	28	0.85	0.7	1.2	CW	3.2×2.3×0.08
NDNC010050	5	6	42	17	22	50	28	1.1	0.8	1.2	CW	3.3×2.3×0.08
NDNC010235	5	6	45.5	23.5	29.5	58	28	2.3	1.6	1.8	PL	3.5×2.5×0.08
NDNC010066	5	6	47	25	33	62	28	3.1	2.1	1.3	PL/CW	3.1×3.9×0.08
NDNC010239	5	6	49	26	32	53	28	5.5	3.6	1.2	PL	3.7×5.5×0.08
NDNC010067	5	6.5	30.5	24.5	31.4	39	28	0.11	0.1	1.7	CW	1.8×1.3×0.08
NDNC010069	5	9	42	20	32	52	28	1.2	1	2.5	CW	2.0×3.5×0.08
NDNC010071	5	10.5	46	20	33	38	28	4	2.5	2.5	CW	4.0×4.6×0.08
NDNC010364	5	13	34	21	24	25	28	0.45	0.36	2.5	CW	2.6×2.0×0.08
NDNC010365	6	18	26	20	22	/	28	0.18	0.1	2.5	CW	1.45×2.4×0.08
NDNC010248	6	18	31	13	20	24	28	0.22	0.11	2	CW	2.0×1.9×0.08
NDNC010078	6	18	35	18	25	28	28	0.5	0.4	2.5	CW	2.0×3.0×0.08
NDNC010080	6	18	38	18	28	26	28	1.1	0.7	2.5	CW	3.0×1.8×0.08
NDNC01053-1	6	18	41	16	28	25	28	2.3	1.5	2.5	CW	3.55×3.5×0.08
NDNC010353	6	18	41	16	28	25	28	2.3	1.5	2.5	CW	3.55×3.5×0.08
NDNC010087	6	18	42.5	18	30	22	28	3.8	2	2.5	CW	4.5×5.2×0.08
NDNC010088	6	18	43.5	18	30	22	28	4.2	2.5	2.5	CW	4.5×5.2×0.08
NDNC010088	7	8.5	41	23	33	47	28	1.1	0.8	1.8	CW	3.2×2.5×0.08
NDNC010091	7	11	30	20	22	20	28	0.18	0.17	2.5	CW	2.2×1.4×0.08
NDNC010092	7	11	47	19	29	48	28	5	2.8	1.6	PL	3.5×5.3×0.08
NDNC010107	8	9	48	23	25	48	28	5.5	3.5	2	PL	4.0×3.7×0.08
NDNC010092	8	12	27	15	18	15	28	0.16	0.15	2	CW	1.9×1.4×0.08
NDNC010098	8	12	27	19	22	25	28	0.13	0.1	2	CW	1.8×1.4×0.08
NDNC010100	8	12	27	21	26	20	28	0.18	0.16	2	CW	2.2×1.4×0.08



GaN Power Amplifiers (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (dBm)	G _P (dB)	G (dB)	PAE (%)	V _D (V)	I _D (A)	I _{DQ} (A)	VSWR	Mode	Dimensions (mm)
NDNC010101	8	12	30	12	17	21	28	0.16	0.15	1.4	PL/CW	2.0×1.5×0.08
NDNC010103	8	12	38	18	25	44	28	0.6	0.4	1.8	PL/CW	2.8×1.9×0.08
NDNC010264	8	12	39	20	27	48	28	7	0.6	2	PL	2.8×1.9×0.08
NDNC010105	8	12	41	21	33	45	28	1.2	0.6	2	CW	2.5×1.6×0.08
NDNC010106	8	12	41.8	23.8	31	45	28	1.35	0.8	2	PL	2.8×1.6×0.08
NDNC010369	8	12	41.8	23.8	31	45	28	1.35	0.8	2	PL	2.8×1.6×0.08
NDNC010109	8	12	43	22	34	54	28	1.6	1	1.5	PL/CW	2.8×2.4×0.08
NDNC010405	8	12	44.5	23	31	50	28	2.6	1	2	PL/CW	2.5×2.7×0.08
NDNC010352	8	12	47	19	29	48	28	5.5	3	1.8	PL	3.5×5.3×0.08
NDNC010270	8	12	48	20	32	40	28	6.5	3.5	1.2	CW	4.0×6.0×0.08
NDNC010102	8	12	49	21	33	47	28	6.3	3	2	PL	5.3×4.5×0.08
NDNC010367	8	18	26	8	7	/	28	0.12	0.1	2.5	CW	1.35×1.35×0.08
NDNC010118	8	18	30	26	29	1	28	0.3	0.2	2.5	PL	2.4×1.45×0.08
NDNC010272	8	18	41	19	24.5	33	24	1.5	0.9	1.5	PL/CW	1.9×3.1×0.08
NDNC010274	8	18	43	19	25	27	28	3	1.8	1.5	PL/CW	3.2×2.5×0.08
NDNC010275	8	18	44	18	30	30	28	3.5	2.5	2.5	CW	3.1×3.5×0.08
NDNC010368	8	18	46	20	30	30	28	5	2.5	2.5	PL	3.2×3.5×0.08
NDNC010121	8.5	10.5	29	16	19	18	28	0.14	0.13	1.2	CW	2.0×1.4×0.08
NDNC01093	8.5	10.5	44.5	23.5	32	51	28	2.3	1.3	1.5	PL	2.9×2.8×0.08
NDNC010370	8.5	10.7	49.6	24	32	56	28/24	6.8	4	1.5	PL/CW	4.0×6.0×0.08
NDNC010371	9	10	38.5	19	26	60	20	0.6	0.3	1.5	CW	2.0×1.4×0.08
NDNC010127	9	10	40.5	22.5	30	50	24	1	0.6	2	CW	2.5×1.6×0.08
NDNC010285	9	10	44.5	23.5	31	52	28	2	1.2	1.5	PL	2.9×2.8×0.08
NDNC010130	9	10	45	23	30	52	28	2.5	2.4	1.2	PL	2.9×2.8×0.08
NDNC010131	9	10	46	24	31	51	28	3	2	1.5	PL	3×3×0.08
NDNC010133	10	18	26	16	22	15	28	0.15	0.14	2	CW	1.8×1.5×0.08
NDNC010134	10	18	27	15	20	15	28	0.22	0.2	2	CW	2.2×1.2×0.08
NDNC010406	10	18	27	17	21	15	28	0.22	0.2	2	CW	2.2×1.2×0.08
NDNC010135	10	18	28	15.5	22	12	28	0.21	0.2	1.8	CW	1.8×1.5×0.08
NDNC01011	10	18	43	20	30	33	28	3	2	2.5	PL	3.0×3.3×0.08
NDNC010138	10	18	44	19	30	35	28	2.5	2	2	CW	3.1×3.4×0.08
NDNC010139	12	18	47.5	20	30	38	28	6.7	5.5	2	PL	3.4×5.7×0.08
NDNC01172	13	15.5	46	22	29	38	28	4	1.1	2.5	CW	3.5×5.3×0.08
NDNC010408	13	19.5	32.5	20.5	25	36	5	1.1	1	1.8	CW	2.5×1.5×0.05
NDNC010409	14	18	28	18	20	15	28	0.22	0.2	2	PL/CW	2.18×1.5×0.08

GaN Power Amplifiers (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (dBm)	G _P (dB)	G (dB)	PAE (%)	V _D (V)	I _D (A)	I _{DQ} (A)	VSWR	Mode	Dimensions (mm)
NDNC010410	14	18	28	18	20	15	28	0.22	0.2	2	PL/CW	2.18×1.5×0.08
NDNC010301	14	18	40	18	31	35	28	1.2	0.6	2	Pulse	2.3×1.9×0.08
NDNC010302	14	18	42	22	30	34	28	2	1.1	2.5	Pulse	3.05×1.9×0.08
NDNC010374	14	18	45	21	28	38	28	3.2	2.1	1.3	PL	2.5×2.7×0.08
NDNC01072	14	18	47	20	29	32	28	6	3.5	2	CW	3.4×5.6×0.08
NDNC010411	15	17	40	32	22.5	40	28	1.2	0.09	1.8	PL	2.3×1.3×0.08
NDNC010147	15	17	41	22	33	45	28	1.1	1.4	1.4	Pulse	2.3×1.9×0.08
NDNC010148	15	17	44	22	30	42	28	2.3	1.3	1.2	PL	2.8×2.6×0.08
NDNC010150	15	18	47.5	20.5	32	40	28	6	3.5	2.5	Pulse	3.4×5.7×0.08
NDNC010403	15.7	17.7	48	20	26	40	28	7	4.5	2.5	PL	3.4×5.7×0.08
NDNC010308	16	17.5	43	22	31	47	24	2.4	1.2	2	PL	2.9×2.6×0.08
NDNC010310	16	18	28	18	21	15	28	0.18	0.17	2.5	Pulse	2.18×1.5×0.08
NDNC010312	17.5	20	40.5	18.5	28	44	20	1.25	0.7	1.6	CW	4.2×1.8×0.05
NDNC010412	17.7	21.2	28.5	13.5	29	48	6	0.34	0.25	2	CW	2.1×1.3×0.05
NDNC010314	18	23	43	21	26	31	20	4	2.4	2.5	Pulse	3.5×3.7×0.05
NDNC010351	18	26	44	17	22	30	22	4.2	2.5	2	PL/CW	3.5×3.2×0.05
NDNC010157	18	26.5	41.5	16.5	24	29	20	3.2	1.6	2	CW	4.2×3×0.05
NDNC010378	18	26.5	44	17	22	30	22	4.2	2.5	2	PL/CW	3.5×3.2×0.05
NDNC010159	18	40	38	13	20	20	20	1.9	1.3	2.5	CW	3.2×1.9×0.05
NDNC010161	18	40	40	12	18	17	20	3.5	2.8	2	CW	3.3×2.8×0.05
NDNC010379	19	21	43	19	25	45	20	2.5	1.2	2	CW	3.0×3.0×0.05
NDNC010162	19.5	21.5	35.5	18.5	24	45	18/20	0.39	0.25	1.9	cW/PL	2.4×1.3×0.05
NDNC010200	24	28	33	23	28	35	20	0.35	0.26	1.8	CW	2.8×1.0×0.05
NDNC010401	27	31	31	13	26	41	5	0.5	0.2	2.5	CW	2.55×1.55×0.05
NDNC010380	30	40	32	14	18	20	6	2.2	1.5	2	CW	2.6×2.2×0.05
NDNC010169	31	36	39	15	22	29	24	1.5	0.8	1.6	CW	3.5×1.6×0.05
NDNC010324	32	36	33	19	28	24	20	0.52	0	1.2	PL	3.2×1.3×0.05
NDNC010171	32	38	30	16	20	25	22	0.4	0.33	2	CW	3.2×1.6×0.05
NDNC010172	32	38	37.5	17.5	24	33	20	0.9	0.16	2	PL	3.2×1.4×0.05
NDNC010175	32	38	42	16	28	30	24	2.5	1.2	2.5	PL/CW	3.2×3.0×0.05
NDNC010176	32	38	45	17	21	24	22	5.3	3.4	3	PL/CW	4.0×5.4×0.08
NDNC010177	32	40	40	16	25	25	24	2.5	1	2.5	CW	3.2×3.4×0.08
NDNC010383	33	37	39	17	25	30	24	1.4	0.7	3	CW	3.6×1.8×0.05
NDNC010414	37	43	37	16	20	28	20	1.6	0.4	2.5	CW	3.0×2.0×0.05
NDNC010415	38	43	35	17	22	28	20	0.9	0.25	2.5	CW	2.6×1.2×0.05

GaN High Linear Power Amplifiers

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (dBm)	G _P (dB)	G (dB)	PAE (%)	V _D (V)	I _D (A)	IM3 (dBc)	Dimensions (mm)
NDNC040001	2.7	3.5	44	24	26	55	36	1.1	-30@40dBm	3.6×2.7×0.08
NDNC040083	5	5.3	36.5	22.5	24	56	20	0.38	-22@34.5dBm	2.6×2.0×0.08
NDNC040036	5.4	5.8	33.7	20.7	23.6	48.5	20	0.24	-30@29.5dBm	2.6×2.0×0.08
NDNC040084	17.7	21.2	23	17	23	40	5	0.1	-30@18.5dBm	2.75×1.4×0.05
NDNC040085	17.7	21.2	23	17	23	40	5	0.1	-30@18.5dBm	2.75×1.4×0.05
NDNC040086	17.7	21.2	23.8	17.8	22	37	5	0.13	-35	1.75×1.4×0.05
NDNC040087	17.7	21.2	23.8	17.8	22	37	5	0.13	-35	1.75×1.4×0.05
NDNC040012	25	31	38	17	23	29	20	1.3	-25@34dBm	3.25×1.74×0.05
NDNC040060	25	31	40.5	16.5	22	27	20	2.5	-25@37dBm	3.6×3.3×0.05
NDNC040013	25	31	42.0	17	23	30	20	2.8	-25@38dBm	3.3×3.3×0.05
NDNC040063	25	31	42.5	18.8	24	30	20	2.8	-25@38dBm	3.3×3.3×0.05

GaAs Power Amplifiers

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (dBm)	G _p (dB)	G (dB)	PAE (%)	V _D (V)	I _D (A)	I _{DQ} (A)	VSWR	Mode	Dimensions (mm)
NDAC010001	0.1	2	25	22	27	35	5	0.22	0.25	1.6	CW	2.4×2.0×0.08
NDAC010002	0.1	6	30	14	15	24	12	0.4	0.35	2.5	CW	2.98×2.48×0.08
NDAC010005	0.8	2	27	17	23	39	5.5	0.27	0.22	1.8	CW	3.2×2.0×0.08
NDAC010006	0.8	2	27	23	30	32	5	0.32	0.33	1.5	CW	3.1×2.0×0.08
NDAC010007	1.2	1.4	29	20	26.5	68	5	0.245	0.12	1.05	CW	3.1×2.5×0.08
NDAC010010	1.6	1.8	33.9	24.9	29.5	54	8	0.56	0.45	1.2	CW	3.0×3.0×0.08
NDAC010011	1.9	2.5	30.5	23.5	27	44	5	0.52	0.34	1.1	CW	3.0×3.0×0.08
NDAC010216	1.9	3	33.6	25.6	31	40	5	1.2	0.89	1.8	CW	2.85×2.9×0.08
NDAC010126	2	4	21.5	29.5	33	32.5	5	0.098	0.1	1.15	CW	3.5×1.75×0.08
NDAC01144	2	4	25	21	26	35	5	0.18	0.22	1.3	CW	2.6×1.8×0.08
NDAC010018	2	6	27.5	21.5	24	36	8	0.2	0.19	1.4	CW	2.8×1.6×0.08
NDAC01112	2	6	30	22	24	30	8	0.45	0.425	1.25	CW	3.1×2.5×0.08
NDAC01011	2	6	36.5	22.5	27	27	8	2	1.1	2	CW	3.6×2.8×0.08
NDAC010023	2	18	23	20	20	20	5	0.35	0.22	2.5	CW	3.5×1.5×0.08
NDAC010025	2	18	24	22	26	20	5	0.34	0.21	2.5	CW	3.5×1.5×0.08
NDAC010222	2	18	27	21.5	29	26	5	0.52	0.36	1.8	CW	3.5×1.5×0.08
NDAC010026	2	35	20	8	9	10	5	0.31	0.36	1.8	CW	3.05×0.87×0.08
NDAC01149	4	5	25	19	24	42	8	0.09	0.08	1.1	CW	2.4×1.8×0.08
NDAC010137	4	12	25	24	30	25	5	0.3	0.27	1.8	CW	2.9×2.4×0.08
NDAC010229	4	12	25	24	30	25	5	0.3	0.27	1.8	CW	2.9×2.4×0.08
NDAC010035	5	6	21.5	19.5	23	40	5	0.075	0.08	1.2	CW	2.2×1.8×0.08
NDAC010139	5	6	21.5	19.5	23	40	5	0.075	0.08	1.2	CW	2.2×1.8×0.08
NDAC010037	5	6	27.7	19.7	16.4	47	8	0.165	0.17	1.35	CW	2.0×1.4×0.08
NDAC010040	5	7	27.5	13.5	14.4	40	5	0.27	0.255	1.4	CW	2.0×1.4×0.08
NDAC01153	5	14	24	12	16	27	5	0.18	0.12	2	CW	2.1×1.4×0.08
NDAC01156	5.1	5.7	37	26	30	50	8	1.3	1.1	1.3	CW	3.6×2.6×0.08
NDAC01158	5.3	5.9	42	26.5	30	37	9	5.5	3.33	1.5	CW	3.5×3.6×0.08
NDAC010045	5.8	7.2	33.8	23.8	29.2	44	10	0.55	0.52	1.4	CW	3.0×1.6×0.08
NDAC01086	6	18	22	19	22.5	16	5	0.2	0.18	2	CW	2.0×1.2×0.08
NDAC010048	6	18	23	14	18	20	5	0.21	0.2	2.2	CW	1.55×1.0×0.08
NDAC010144	6	18	24	17	21	15	8	0.22	0.2	2.3	CW	1.65×1.1×0.05
NDAC010145	6	18	24	17	21	15	8	0.22	0.2	2.3	CW	1.65×1.1×0.05
NDAC01019	7.7	8.5	41	26	32	43	8	3.8	2.8	1.8	CW	3.5×4.0×0.08
NDAC010051	7.8	8.5	23.5	18.5	22.5	46	5	0.1	0.08	1.7	CW	2.0×1.3×0.08
NDAC01028	8	12	21	14	16	18	8	0.1	0.07	1.5	CW	2.1×1.5×0.08



GaAs Power Amplifiers (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (dBm)	G _P (dB)	G (dB)	PAE (%)	V _D (V)	I _b (A)	I _{bq} (A)	VSWR	Mode	Dimensions (mm)
NDAC01164	8	12	23	15	17	30	5	0.15	0.1	2	CW	1.9×1.4×0.08
NDAC01092	8	12	24	18	21	25	8	0.15	0.15	1.5	CW	2.67×1.6×0.08
NDAC010059	8	12	31.5	20.5	26.5	50	8	0.36	0.16	1.4	CW	2.65×1.4×0.08
NDAC01163	8	12	33	26	27.5	51	8	0.55	0.35	1.3	CW	3.6×1.4×0.08
NDAC010063	8	12	41.3	18	25	37	8	4.7	2	1.5	CW	3.2×4.0×0.08
NDAC01026	8.5	10.5	41.2	22	25	40	8.5	4	2.2	1.8	CW	3.2×4.0×0.08
NDAC01165	9	10	25.5	25.5	30	42	5	0.175	0.19	1.2	CW	3.0×3.7×0.08
NDAC010068	9	10	28	22	28	38	8	0.23	0.19	1.5	CW	3.0×1.5×0.08
NDAC01021	9	10.2	20	13	16	12.5	8	0.1	0.07	1.6	CW	2.1×1.5×0.08
NDAC01022	9	10.2	41	24	27	40	8	3.75	2.3	1.8	CW	3.2×4.0×0.08
NDAC010071	10	18	27	20	25	25	8	0.35	0.25	2.5	CW	2.5×1.9×0.09
NDAC010231	10.7	12.7	26.5	17.5	21.5	42	5	0.22		1.3	CW	2.0×1.4×0.08
NDAC01035	12	17	37	18	24	20	8	3	3	2.5	CW	3.5×3.4×0.08
NDAC010232	13	14.5	37.5	19.5	22	40	8	2.05	1.5	1.6	CW	3.4×2.6×0.08
NDAC010077	13	19	29.7	26.7	29.5	34.5	8	0.35	0.19	1.5	CW	2.6×1.6×0.08
NDAC010078	13.5	14.5	23	17	21	30	8	0.098	0.089	1.5	CW	2.5×1.2×0.08
NDAC010079	13.5	15.5	17	6	7.5	20	5	0.058	0.053	1.1	CW	0.95×0.95×0.08
NDAC01141	14	16	19.5	16.5	17.5	22	8	0.055	0.04	1.5	CW	2.0×1.5×0.08
NDAC01169	14	18	25.5	12.5	18	40	5	0.16	0.15	1.2	CW	1.9×1.3×0.08
NDAC01170	14.5	16	38	20	34	33	8	2.5	1.2	2	CW/PL	3.4×2.6×0.1
NDAC01036	14.5	17.5	38	18.5	23	33	8	3	/	1.6	CW	3.5×3.4×0.08
NDAC010173	15	17	20	20	24.5	36	5	0.06	0.054	1.45	CW	2.4×1.1×0.08
NDAC010087	15	17	22.5	13.5	17	41	5	0.095	0.09	1.4	CW	2.2×1.1×0.08
NDAC010220	16.5	17.5	27.2	14.2	19.5	50.5	5	0.23	0.19	1.4	CW	1.9×1.3×0.08
NDAC010091	17	43	22	19	25	10	5	0.4	0.4	2.5	CW	1.9×0.8×0.08
NDAC010092	17.5	18.5	21	21	28	35	5	0.075	0.07	2	CW	2.5×1.3×0.08
NDAC010097	18	26.5	27	19	21	28	5	0.45	0.35	2	CW	2.9×1.63×0.08
NDAC010098	18	27	29	11	13	20	5	0.9	0.74	1.5	CW	2.85×1.85×0.08
NDAC010099	18	27	31	14	17	24	5	1.1	0.95	1.5	CW	2.72×2.4×0.08
NDAC010101	19	21.5	27	23	28	44	5	0.23	0.17	2.2	CW	2.6×1.3×0.05
NDAC010100	19	21.5	29	23	27	46	5	0.34	0.24	2	CW	2.6×1.3×0.05
NDAC010102	19	22	23	22	25	42	5	0.1	0.09	2	CW	2.0×1.0×0.08
NDAC010233	19.6	21.2	26.5	22.5		43	5	0.26	0.19	2	CW	2.6×1.3×0.08
NDAC010103	22	24	21.5	23	25	42	5	0.09	0.06	2	CW	2.1×1.2×0.08
NDAC010104	22	24	36	16	21	28	5	3.1	2.54	1.5	CW	3.5×4.6×0.08

GaAs Power Amplifiers (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (dBm)	G _p (dB)	G (dB)	PAE (%)	V _D (V)	I _b (A)	I _{bq} (A)	VSWR	Mode	Dimensions (mm)
NDAC010192	22.5	25	24	22	28	36	5	0.16	0.12	2	CW	2.5×1.4×0.08
NDAC01174	24	25	22	19	23	35	5	0.1	0.06	1.8	CW	2.1×1.3×0.08
NDAC010234	24	26	24	21	25	40	5	0.15	0.11	2.5	CW	2.1×1.2×0.05
NDAC010195	24	30	24	19	26	39	5	0.14	0.07	2.4	CW	2.1×1.2×0.08
NDAC010106	25	27	18	18.5	24	28	5	0.05	0.04	2	CW	2.2×1.0×0.08
NDAC010108	25	27	22.5	17.5	21	36	5	0.11	0.05	1.6	CW	2.1×1.2×0.08
NDAC010110	26	40	27	17	25	18	6	0.5	0.55	3	CW	2.64×1.96×0.08
NDAC01183	32	33	22.5	20.5	23	36	5	0.095	0.07	1.8	CW	2.1×1.2×0.08
NDAC010115	32	37	12	15	25	14	5	0.045	0.04	1.8	CW	1.72×0.75×0.08
NDAC010116	32	40	19	19	21	18	5	0.12	0.08	2	CW	2.6×1.0×0.08
NDAC010118	32.3	33	24.5	22.5	23	37	5	0.2	0.12	2	CW	2.1×1.2×0.08
NDAC01130	33	37	23	23	26	22	5	0.26	0.23	1.5	CW	2.8×1.2×0.05



Phase-Amplitude Core Chips

Part Number	Description	Start Freq. (GHz)	Stop Freq. (GHz)	Tx Pout (dBm)	Tx Gain (dB)	Rx Pout (dBm)	Rx Gain (dB)	Rx NF (dB)	Dimensions (mm)
NDAC210002	1 CH, Parallel, 2-Bit PS, 6-Bit ATT	0.35	0.45	/	-2	/	-2	/	3.5×4.0×0.08
NDAC210166	1 CH, Parallel, 6-Bit ATT, 6-Bit TD	1.14	1.46	24	25	4	6	5.5	3.95×3.95×0.08
NDAC210016	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	2	6	19.5	10	3.2	-1.5	5	4.0×4.2×0.08
NDAC210177	1 CH, Parallel, 3-Bit TD	2	18	4	5	-5	3	9	5.5×3.5×0.08
NDAC210176	1 CH, Parallel, 2-Bit TD	2	18	16	3	2	2	8.5	5.5×4×0.08
NDAC210179	1 CH, Parallel, 1-Bit TD	2	18	7	/	-9	-2	12	6×4.1×0.08
NDAC210010	1 CH, Parallel, 6-Bit PS	2	18	10	8	10	7	16	4.0×4×0.08
NDAC210008	1 CH, Parallel, 2-Bit PS, 5-Bit ATT	2	18	10	4	1	10	6	6.0×2.8×0.08
NDAC210009	1 CH, Parallel, 2-Bit PS, 5-Bit ATT	2	18	10	4	1	10	6	6.0×2.8×0.08
NDAC210160	1 CH, Parallel, 5-Bit ATT, 5-Bit TD	2	18	16	4	-3.5	2	5	5.5×3.0×0.1
NDAC210159	1 CH, Parallel, 5-Bit ATT, 5-Bit TD	2	18	16	4	-3.5	2	5	5.5×3.0×0.1
NDAC210013	1 CH, Parallel, 1-Bit TD	2	18	18	27/8.5	4.5	8	3.5	4×4.7×0.08
NDAC210178	1 CH, Parallel, 6-Bit TD	2	18	18.6	4.5	-6	1	5	4.5×4×0.08
NDAC210011	1 CH, Parallel, 6-Bit ATT, 7-Bit TD	2	18	/	/	0	11	4	6.0×4.5×0.08
NDAC210170	1 CH, Parallel, 7-Bit TD	2	18	/	/	11	0	/	6×5.5×0.08
NDAC210174	1 CH, Parallel, 2-Bit TD	2	18	/	/	11	0	/	6×5.5×0.08
NDAC210017	1 CH, Serial, 6-Bit PS, 6-Bit ATT	2.4	11.8	/	/	5	29	2.3	4.8×4.45×0.08
NDAC210188	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	2.4	12	10	11	6	26	2.8	4.8×5.0×0.08
NDAC210168	2 CH, Parallel, 6-Bit PS, 6-Bit ATT	5	6	21	21	3.5	6	6	5.0×5.6×0.08
NDAC210182	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	6	18	15	9	/	/	/	4.8×2.6×0.08
NDAC210187	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	7	13	24	21	14	10	8	3.5×4.5×0.08
NDAC210165	2 CH, Serial, 6-Bit PS, 4-Bit ATT	7.5	9	8	20	/	/	/	3.7×2.7×0.08
NDAC210065	1 CH, Parallel, 1-Bit TD	8	12	-2.5	2	11	2	17	4.0×4.2×0.08
NDAC210062	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	8	12	22	20.5	8	12	5	3.5×4.55×0.08
NDAC210070	1 CH, Serial, 6-Bit PS, 6-Bit ATT	8	12	12	12	6	8	6.5	2.5×3.0×0.08
NDAC210060	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	8	12	14	3	14	3	/	3.75×4×0.08
NDAC210181	1 CH, Serial, 6-Bit PS	8	12	19	14	/	/	/	4.5×2.2×0.08
NDAC210171	2 CH, Parallel, 6-Bit PS, 6-Bit ATT	8	12	13	14	12	13	7	4.5×3.5×0.08
NDAC210072	1 CH, Serial, 6-Bit PS, 6-Bit ATT, 2-Bit TD	8.5	10.5	30.4	33	-22	29	2.5	5.1×3.4×0.08
NDAC210161	1 CH, Serial, 6-Bit PS, 6-Bit ATT, 2-Bit TD	8.5	10.5	30.4	33	-22	29	2.5	5.1×3.4×0.08
NDAC210157	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	10	18	16	10	10.5	10	7.5	5×3.7×0.08
NDAC210167	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	10	18	21	20	12	10	9	3.0×3.2×0.1
NDAC210169	2 CH, Serial, 6-Bit PS, 6-Bit ATT	10.7	12.75	-5	16	-20	/	1.5	4.2×4.0×0.08

Phase-Amplitude Core Chips (Continued)

Part Number	Description	Start Freq. (GHz)	Stop Freq. (GHz)	Tx Pout (dBm)	Tx Gain (dB)	Rx Pout (dBm)	Rx Gain (dB)	Rx NF (dB)	Dimensions (mm)
NDAC210186	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	14	18	16	14	7	15	/	3.6×5×0.08
NDAC210098	1 CH, Serial, 6-Bit PS, 4-Bit ATT	14.5	16.5	6	2	6	5	/	2.25×3.9×0.08
NDAC210164	1 CH, Serial, 6-Bit PS, 4-Bit ATT	14.5	16.5	6	2	6	5	/	2.25×3.9×0.08
NDAC210105	1 CH, Serial, 6-Bit PS, 6-Bit ATT	15	17	21.5	16	11.5	13.5	/	4.3×5.0×0.08
NDAC210112	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	15.7	17.7	12	7	9	6	9	3.5×4.8×0.08
NDAC210180	2 CH, Serial, 6-Bit PS, 5-Bit ATT	19	21	/	/	/	/	/	3.5×2.7×0.08
NDAC210117	4 CH, Serial, 6-Bit PS	19	21	8	2	/	/	/	2.8×2.75×0.08
NDAC210118	1 CH, Serial, 6-Bit PS, 5-Bit ATT	19	23	4	8	7	8	/	3.2×4.75×0.08
NDAC210162	4 CH, Serial, 6-Bit PS, 4-Bit ATT	19.6	21.2	/	/	3	12.5	13	4.5×2.85×0.08
NDAC210128	2 CH, Serial, 6-Bit PS, 4-Bit ATT	21	23	4.5	3	3	4	14.5	3.8×2.9×0.08
NDAC210163	2 CH, Serial, 6-Bit PS, 4-Bit ATT	21	23	4.5	3	3	4	14.5	3.8×2.9×0.08
NDAC210173	2 CH, Serial, 6-Bit PS, 6-Bit ATT	22	26.5	/	-16	/	/	/	3.5×2.5×0.08
NDAC210185	2 CH, Serial, 6-Bit PS, 6-Bit ATT	22	27	/	/	/	/	/	2×2.7×0.08
NDAC210172	4 CH, Serial, 6-Bit PS	24	28	/	/	/	/	/	3.2×2.45×0.08
NDAC210132	1 CH, Parallel, 6-Bit PS, 4-Bit ATT	24	25	3.5	14.5	-12	8	5.5	2.8×4×0.08
NDAC210133	2 CH, Serial, 6-Bit PS, 5.5-Bit ATT	25	27	/	-16	/	-16	/	4×5×0.08
NDAC210137	4 CH, Serial, 6-Bit PS, 5-Bit ATT	27.5	31	/	/	-14	10	3.5	4.5×4.2×0.08
NDAC210140	2 CH, Serial, 6-Bit PS, 6-Bit ATT	29	31	/	/	/	/	/	4.5×2.8×0.08
NDAC210141	4 CH, Serial, 6-Bit PS	29.2	31.2	6	0.5	/	/	/	2.65×2.6×0.08
NDAC210183	1 CH, Parallel, 6-Bit PS, 6-Bit ATT	32	38	/	-11	/	-11	/	4×1.8×0.08
NDAC210147	1 CH, Parallel, 6-Bit PS, 4-Bit ATT	32.4	33	4	18	-8	13	6.5	2.8×4×0.08
NDAC210184	1 CH, Serial, 6-Bit PS, 6-Bit ATT	33	37	10	3	0	5.5	7	2.5×4.9×0.08
NDAC210151	2 CH, Parallel, 6-Bit PS, 6-Bit ATT	34	38	8	7	-5	2	11	4.5×4.2×0.08



Tx / Rx Core Chips

Part Number	CH	Start Freq. (GHz)	Stop Freq. (GHz)	TX Pout (dBm)	TX Gain (dB)	RX Pout (dBm)	RX Gain (dB)	NF (dB)	Dimensions (mm)
NDAC160027	2	0.35	1.4	16	16	16	16	2.0	2.8×3.4×0.08
NDAC160015	1	0.8	3.5	18	17	18	17	2.0	1.7×2.1×0.08
NDAC160026	2	2.3	3.5	14.5	18	/	-6	/	4.3×3.0×0.08
NDAC160009	1	2.7	3.5	21	14	/	-1.1	/	2.7×1.65×0.08
NDAC160022	1	5	10	20	10	15	10	3.5	17×1.71×0.08
NDAC160023	1	5	14	20	15	/	-1.5	/	1.7×1.4×0.08
NDAC160021	1	6	18	19	16	10	18	/	2.1×2.0×0.08
NDAC160006	1	7	13	20	10	18	6	/	2.0×2.0×0.08
NDAC160020	1	7.7	11.8		-1.5	15	23	2.5	1.4×1.85×0.08
NDAC160019	1	7.7	12	21	24	15	25	2.5	3.0×2.5×0.08
NDAC160007	1	7.8	11.8	13	21	6	16	3.5	1.9×2.0×0.08
NDAC160008	1	7.8	11.8	16	28	16	29	3.5	2.2×2.0×0.08
NDAC160025	1	8	12	16	9	12	8.5	3.0	1.7×1.7×0.08
NDAC160003	1	9	11	18	16	18	16	/	1.7×2.0×0.08
NDAC160024	1	12	18	15	17	15	23	2.8	2.0×1.95×0.08
NDAC160028	1	13	19	20	26.0	20	26.0	4.5	1.92×2.5×0.08
NDAC160001	1	14	18	31.5	26	4	26	2.7	2.8×3.0×0.08
NDAC160004	1	14	18	31.5	26	4	26	2.7	2.8×3.0×0.08
NDAC160012	1	15	18	18	22.5	9	6	/	1.5×1.5×0.08
NDAC160010	1	15	23	15	12	5	12	2.7	1.7×1.3×0.1
NDAC160018	1	15.7	17.7	28.5	26	4	25	2.5	2.8×2.2×0.08
NDAC160005	1	21	23	21	25	5	25	/	2.4×1.6×0.08
NDAC160011	1	21.3	23	23	25	4	22	3.0	1.8×2.2×0.08
NDAC160013	1	24	26	13	26	4	25	2.8	2.6×1.9×0.08
NDAC160014	1	32	37	19.5	21	20	16	/	1.96×2.76×0.08
NDAC160002	1	32	37	27	20	/	23	2.4	4.0×2.35×0.08
NDAC160016	1	32	38	21	3.5	6	11.5	5.0	1.8×2.2×0.08
NDAC160017	1	32	38	21	16.5	6	11.5	5.0	1.8×2.2×0.08

Conversion Core Chips

Part Number	CH	RF Start Freq. (GHz)	RF Stop Freq. (GHz)	LO Start Freq. (GHz)	LO Stop Freq. (GHz)	IF Start Freq. (GHz)	IF Stop Freq. (GHz)	LO Driver Power (dBm)	RX P ₋₁ (dBm)	TX P ₋₁ (dBm)	Dimensions (mm)
NDAC200029	1	0.38	2	0.5	2	0.1	0.5	0	8	0	2.37×2.74×0.1
NDAC200003	1	2	4	2	6	0	2	2	10	0	3.1×1.3×0.08
NDAC200027	1	3	9	3	9	0.5	1	-3	-5	0	3.1×2.8×0.08
NDAC200008	1	7	13	11.5	15	3	4	2	15	15	3.6×2.5×0.08
NDAC200024	1	20	30	11	20	0	18	-5	7	0	2.5×1.5×0.1
NDAC200019	1	22.4	22.4	23.2	40.4	0	18	8	13	0	1.2×2.4×0.08
NDAC200028	1	22.4	22.4	23.2	40.4	0	18	8	13	0	1.2×2.4×0.08
NDAC200023	1	32	36	8	9	0	1	0	-10	0	2.7×1.7×0.1
NDAC200026	1	35	37.5	30.5	33	4.5	4.5	0	9	0	2.9×2.4×0.08
NDAC200022	1	58	62	9.7	10.3	0	0.1	0	-20	11	3.5×2.0×0.1
NDAC200025	1	92	96	28	28	8	12	10	0	0	1.2×0.75×0.1



GaN Switches

Part Number	Type	Start Freq. (GHz)	Stop Freq. (GHz)	IL (dB)	Iso (dB)	P _{IN-0.3} (dBm)	Switch Time (ns)	Control Voltage (V)	Dimensions (mm)
NDNC020002	SPDT	0.1	2	0.8	25	57	20	0/±40	2.9×1.05×0.08
NDNC020090	SP3T	0.1	2	0.6	35	51.5	20	0/-40	3.0×1.5×0.08
NDNC020120	SP3T	0.1	2	0.9	22	55	100	0/-40	3.3×1.5×0.08
NDNC020098	DPDT	0.1	2	0.35/0.8	32	47.5	20	0/-40	3.0×1.5×0.08
NDNC020091	SP3T	0.1	3	0.8	40	51	20	0/-40	1.95×1.7×0.08
NDNC020020	SPDT	0.1	6	0.7	35	59.5	20	0/-40	2.1×6.3×0.08
NDNC020008	SPDT	0.1	6	1.1	45	53	20	0/-40	2.2×1.1×0.08
NDNC020009	SPDT	0.1	6	1.2	50	45	20	0/-40	2.1×1.5×0.08
NDNC020095	SP4T	0.1	6	1.5	32	47	20	0/-40	2.2×1.63×0.08
NDNC020012	SPDT	0.1	7	0.4	30	46	20	0/-40	1.2×0.82×0.08
NDNC020013	SPDT	0.1	7	0.8	30	51	20	0/-40	2.2×1.1×0.08
NDNC020014	SPDT	0.1	7	1	30	52	20	0/-40	2.2×1.1×0.08
NDNC02056	SPDT	0.1	10	1	35	46	20	0/±40	2.0×1.0×0.08
NDNC020015	SPDT	0.1	12	1	40	44	20	0/-40	1.8×0.82×0.08
NDNC020016	SPDT	0.1	12	1.3	40	52	20	0/-40	2.2×1.6×0.08
NDNC020017	SPDT	0.1	18	0.8	35	38	20	0/-40	1.2×0.82×0.08
NDNC020021	SPDT	0.1	18	1.6	45	47	20	0/-40	1.8×1.1×0.08
NDNC020022	SPDT	0.1	18	2	35	49	20	0/-40	1.8×1.1×0.08
NDNC020093	SP3T	0.1	18	2	50	42	20	0/-40	2.0×1.7×0.08
NDNC020096	SP4T	0.1	18	1.8	45	41.5	20	0/-40	1.8×1.63×0.08
NDNC020086	SPST	0.1	20	0.8	27	51	20	0/-40	2.9×1.05×0.08
NDNC02057	SPDT	0.1	20	1.5	30	42	20	0/±40	2.0×1.0×0.08
NDNC020124	SPDT	0.1	20	1.6	31	33	50	0/-5	1.6×1.4×0.05
NDNC020023	SPDT	0.1	20	1.8	38	45	20	0/-40	2.0×1.55×0.08
NDNC020097	SP4T	0.1	20	2.4/2.8	35	45	50	0/-40	2.0×2.15×0.08
NDNC020026	SPDT	0.1	40	1.8	30	30	20	0/-40	1.4×1.0×0.08
NDNC02060	SPDT	0.5	2	0.6	35	54	20	0/-40	1.95×1.25×0.08
NDNC02059	SPDT	0.5	2.5	0.6	35	52	20	0/-40	1.9×0.9×0.08
NDNC020030	SPDT	1.2	1.4	0.35	38	48	20	0/-40	1.3×1.15×0.08
NDNC020109	SPDT	2	6	0.9	55	53	50	0/-40	2.85×5.0×0.08
NDNC020032	SPDT	2	6	1	65	51	20	0/-40	3.6×2.4×0.08
NDNC020033	SPDT	2	6	1.1	55	52	20	0/-40	3.6×2.4×0.08
NDNC020034	SP3T	2	6	1	50	48	20	0/-40	2.3×2.1×0.08
NDNC020122	SP4T	2	6	1.5	35	48	50	0/-40	4.0×4.2×0.08
NDNC020035	SP3T	2	18	2	40	47	20	0/-40	2.0×1.7×0.08

GaN Switches (Continued)

Part Number	Type	Start Freq. (GHz)	Stop Freq. (GHz)	IL (dB)	Iso (dB)	P _{IN-0.3} (dBm)	Switch Time (ns)	Control Voltage (V)	Dimensions (mm)
NDNC020037	SPDT	2.7	3.5	0.85	50	49	20	0/±40	2.4×1.6×0.08
NDNC020123	SPDT	2.7	6.2	1	32	54	50	0/-40	2.4×3.6×0.08
NDNC020110	SPDT	5	6	0.7	30	48	20	0/-40	2.0×1.5×0.08
NDNC020043	SPDT	5	9	0.75	37	52	20	0/-40	2.4×2.4×0.08
NDNC020112	SPDT	5	13	0.8	38	49	20	0/-40	3.2×1.65×0.08
NDNC020111	SPDT	5	13	0.8	40	49	20	0/-40	1.65×3.2×0.08
NDNC020045	SPDT	6	18	1	42	48	20	0/-40	3.0×1.5×0.08
NDNC020046	SPDT	6	18	1.2	42	50	20	0/-40	3.0×1.5×0.08
NDNC020049	SPDT	8	12	0.8	30	52	20	0/-40	2.8×2.35×0.08
NDNC020048	SPDT	8	12	0.8	40	47	20	0/±28	2.4×2.2×0.08
NDNC020050	SPDT	8	12	1	28	53	20	0/-40	2.8×2.2×0.08
NDNC020102	SPDT	8	18	0.85	33	47	20	0/-40	1.65×3.2×0.08
NDNC020058	SPDT	10	21	1	30	45	20	0/±40	2.0×1.0×0.08
NDNC020059	SPDT	10	23	1	28	46.5	20	0/-40	2.0×1.0×0.08
NDNC020060	SPDT	10	36	0.8	38	45	20	0/-40	1.9×3.0×0.08
NDNC020063	SPDT	14	18	1	25	53	20	0/-40	2.2×1.3×0.08
NDNC020067	SPDT	18	22	0.9	50	46	20	0/-40	2.5×2.2×0.08
NDNC020070	SPDT	18	40	1	48	43	20	0/-40	2.9×1.05×0.08
NDNC020071	SPDT	18	44	1	45	40	20	0/-40	1.7×1.5×0.08
NDNC020073	SPDT	20	21	0.9	50	47	20	0/-40	2.5×2.2×0.08
NDNC020080	SPDT	28	38	1.2	32	42	20	0/-40	1.3×2.55×0.08
NDNC020079	SPDT	30	40	0.9	30	41	20	0/-40	1.5×0.85×0.08



GaAs FET Switches

Part Number	Type	Start Freq. (GHz)	Stop Freq. (GHz)	IL (dB)	ISO (dB)	P _{IN-1} (dBm)	VSWR	Switch Time (ns)	Control Voltage (V)	Dimensions (mm)
NDAC08001	SPDT	0	4	0.5	35	25	1.2	10	0/-5, 5/0	0.7×0.7×0.1
NDAC08002	SPDT	0	4	0.8	55	25	1.3	10	0/-5	1.33×1.0×0.1
NDAC08051	SP4T	0	4	1	50	25	1.3	10	0/-5	1.5×1.5×0.1
NDAC08052	SP6T	0	4	1.3	40	25	1.4	10	0/-5	1.5×2.15×0.1
NDAC08006	SPDT	0	10	1	50	25	1.3	10	0/-5	1.45×1.44×0.1
NDAC080067	DPDT	0	12	1.9	38	25	1.2	20	TTL(-5)	1.8×1.8×0.08
NDAC08072	SP3T	0	12	2	60	25	1.3	10	TTL(-5)	1.8×1.8×0.08
NDAC080014	SPDT	0	18	1.5	60	25	1.2	10	TTL(-5)	1.5×1.2×0.08
NDAC080015	SPDT	0	18	1.5	60	25	1.2	10	TTL(-5)	1.5×1.2×0.08
NDAC08019	SP3T	0	18	1.7	55	25	1.3	10	TTL(-5)	1.55×1.5×0.1
NDAC08074	SP3T	0	18	1.2/2.5	50	25	1.2	10	TTL(-5)	1.55×1.5×0.1
NDAC08075	SP4T	0	18	1.8/2.6	50	25	1.3	20	TTL(-5)	1.8×2.0×0.08
NDAC080064	SP4T	0	18	1.8/2.6	50	25	1.3	20	TTL(-5)	1.8×2.0×0.08
NDAC080020	SPST	0	20	1.2	55	25	1.2	10	TTL(-5)	1.07×1.0×0.08
NDAC08009	SPDT	0	20	1.3	40	25	1.3	10	0/-5	1.05×1.0×0.1
NDAC08046	SPDT	0	20	1.5	40	25	1.3	20	TTL(-5)	1.0×1.0×0.08
NDAC08008	SPDT	0	20	2	55	25	1.3	10	0/-5	1.0×2.0×0.08
NDAC080026	SPDT	0	20	2	55	25	1.2	10	TTL(-5)	2.0×1.0×0.08
NDAC08077	SP4T	0	20	1.8/2.5	45	25	1.5	20	TTL(-5)	1.8×2.0×0.08
NDAC080065	SP4T	0	20	1.8/2.5	45	25	1.5	20	TTL(-5)	1.8×2.0×0.08
NDAC08057	SPDT	0	25	2	45	25	1.3	10	0/-5	1.0×2.0×0.08
NDAC08078	SPDT	0	25	2	45	25	1.3	10	TTL(-5)	2.0×1.0×0.08
NDAC080034	SPDT	0	40	2.5	40	25	1.3	10	TTL(-5)	1.01×1.29×0.08
NDAC080040	SP4T	0.5	4	0.8	50	25	1.2	10	TTL(+5)	1.5×1.5×0.08
NDAC080041	SP4T	0.5	4	0.8	50	25	1.2	10	TTL(+5)	1.5×1.5×0.08
NDAC08021	SPDT	0.5	6	0.8	42	25	1.3	10	0/-5, 5/0	0.75×1.0×0.08
NDAC08060	SPDT	8	12	0.8	20	33	1.3	10	0/-5	1.25×1.8×0.1
NDAC08065	SPDT	17	23	0.8	28	25	1.3	10	0/-5	1.8×0.8×0.1
NDAC08082	SPDT	17	23	0.8	28	25	1.3	10	TTL(-5)	1.8×1.0×0.08
NDAC080057	SPST	20	40	0.8	25	25	1.5	10	0/-5	1.2×0.72×0.08
NDAC080058	SPDT	20	40	1.8	40	25	1.8	10	0/-5	1.0×1.2×0.08
NDAC08067	SPDT	23	32	1	22	25	1.3	10	0/-5	1.55×0.8×0.08
NDAC08038	SPDT	25	30	0.8	23	25	1.3	10	0/-5	1.55×0.8×0.08
NDAC08041	SPDT	30	40	0.8	24	25	1.3	10	0/-5	1.55×0.8×0.08
NDAC08050	SPDT	30	40	0.8	24	25	1.3	10	TTL(-5)	1.0×1.55×0.08

GaAs FET Switches (Continued)

Part Number	Type	Start Freq. (GHz)	Stop Freq. (GHz)	IL (dB)	ISO (dB)	P _{IN-1} (dBm)	VSWR	Switch Time (ns)	Control Voltage (V)	Dimensions (mm)
NDAC08069	SPDT	35	50	1.3	20	25	1.5	10	0/-5	0.8×1.4×0.08
NDAC08086	SPDT	40	66	1.8	20	25	1.5	10	TTL(-5)	1.3×1.0×0.08

GaAs PIN Switches

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	IL (dB)	ISO (dB)	P _{IN-0.1} (dBm)	Input VSWR	Output VSWR	Switch Time (ns)	Control Mode	Dimensions (mm)
NDAC130003	0.1	50	1.2	25	20	1.5	1.5	50	10mA -10mA	1.25×0.78×0.1
NDAC130004	0.1	50	1.4	25	0	1.5	1.5	50	10mA -10mA	1.32×1.34×0.1
NDAC130005	0.5	40	2	23	0	1.8	1.8	50	10mA -10mA	1.76×1.56×0.1
NDAC130008	15	17	0.65	40	20	1.2	1.2	50	±5V	2.4×1.3×0.1
NDAC130010	32	37	0.8	30	29	1.5	1.5	50	-12V/5V	2.0×0.9×0.1

Limiter + Low Noise Amplifiers

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	G (dB)	P ₋₁ (dBm)	NF (dB)	Input VSWR	Output VSWR	Limit Power (W)	Mode	Dimensions (mm)
NDAC230001	1.2	1.4	35	9	1	1.7	1.7	100	200μs, 20%, 15min	3.3×1.7×0.1
NDAC230002	2.7	3.5	28	9	1.4	1.6	1.6	100	2ms, 30%, 15min	3.2×1.7×0.1
NDAC230003	2.7	3.5	30.5	9	0.9	2.2	1.5	35	250μs, 25%	3.45×1.6×0.1
NDAC230027	5	6	23	12	1.1	1.6	1.6	100	800μs, 20%	3.7×1.5×0.1
NDAC230005	5	9	25	9	1.7	1.4	1.4	32	10ms, 30%,15min	3.2×2.5×0.1
NDAC230006	5	6	23	9	1.3	1.9	1.5	100	800μs, 20%,15min	3.7×1.5×0.1
NDAC230007	5	7	25	9	1.6	1.4	1.4	35	8.5ms, 30%,15min	3.2×2.5×0.1
NDAC230008	5	14	19	8	1.6	1.6	1.6	40	300μs, 30%,	3.05×1.2×0.1
NDAC230004	5	7	25	9	1.6	1.4	1.4	35	8.5ms, 30%	3.2×2.5×0.1
NDAC230020	5	7	25	9	1.6	1.4	1.4	35	8.5ms, 30%	3.2×2.5×0.1
NDAC230028	5	18	28	9	2.3	1.4	1.4	50	100μs, 25%	3.5×2.0×0.1
NDAC230012	7.8	11.8	24	0	1.9	1.4	1.4	20	CW,15min	3.6×2.4×0.1
NDAC230013	8	18	32	10	2	2	2	5	CW	2.5×2.0×0.1
NDAC230014	12	18	27	7	1.8	1.6	1.5	40	200μs, 20%,15min	2.2×1.5×0.1
NDAC230009	6	18	23	10	2.8	1.5	1.5	20	400μs, 30%	3.4×2.3×0.1
NDAC230010	7	13	22	10	1.8	1.5	1.5	50	10ms, 10%	2.8×2.4×0.1
NDAC230017	14	18	21	5	1.8	1.5	1.5	20	250μs, 25%,15min	2.2×1.2×0.1

Limiters

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	Limit Power (W)	IL (dB)	Clipping Level (dBm)	Input VSWR	Output VSWR	Mode	Dimensions (mm)
NDAC120001	0.1	4	40	0.3	15	1.3	1.3	3ms 35%	1.2×1.4×0.1
NDAC12038	0.3	2	10(CW) 80(PL)	0.3	20	1.2	1.2	CW/20μs,10%	1.5×0.9×0.1
NDAC120004	0.8	18	6	0.6	15	1.5	1.5	CW	1.3×2.0×0.1
NDAC120090	0.96	1.66	150	0.25	15	1.3	1.3	500μs, 20%	1.3×2.0×0.1
NDAC120089	0.96	1.66	150	0.25	15	1.3	1.3	500μs, 20%	2.0×1.5×0.1
NDAC120005	1	4	20	0.2	16	1.1	1.1	100μs, 20%	1.5×1.2×0.1
NDAC120010	1.2	1.4	20	0.2	16	1.2	1.2	1ms, 30%	1.5×1.3×0.1
NDAC120009	1.2	1.4	40	0.2	15	1.2	1.2	1ms, 30%	2.0×0.78×0.1
NDAC120008	1.2	1.4	150	0.2	16	1.3	1.3	200μs,20%	1.5×0.9×0.1
NDAC120091	1.7	3	80	0.6	16	1.5	1.5	CW	1.23×0.66×0.1
NDAC120013	2	6	10	0.5	16	1.4	1.4	CW	1.5×1.2×0.1
NDAC120064	2	6	70	0.5	15	1.5	1.5	CW	1.5×1.2×0.1

Limiters (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	Limit Power (W)	IL (dB)	Clipping Level (dBm)	Input VSWR	Output VSWR	Mode	Dimensions (mm)
NDAC12023	2	6	80	0.5	18	1.5	1.5	20μs, 20%	1.7×1.5×0.1
NDAC120015	2	6	200	0.5	16	1.4	1.4	1μs, 1%	1.7×1.5×0.1
NDAC12041	2	6	10(CW) 30(PL)	1.5	17	1.5	1.5	CW	2.4×1.5×0.1
NDAC120017	2	18	5	0.6	17	1.5	1.5	CW	2.0×1.5×0.1
NDAC120019	2	18	10	0.6	16	1.5	1.5	CW	1.2×1.1×0.1
NDAC120018	2	18	37	0.6	17	1.5	1.5	CW	1.7×1.2×0.1
NDAC120098	2	18	100	0.7	16	1.6	1.6	50μs, 5%	2.0×1.5×0.1
NDAC120067	2	18	100(PL) 10(CW)	0.9	17	1.8	1.8	50μs, 5%	2.0×1.5×0.1
NDAC120020	2	18	100(PL) 10(CW)	0.9	17	1.6	1.6	50μs, 5%	1.6×1.2×0.1
NDAC120058	2.7	3.5	40	0.3	15	1.4	1.4	1ms, 30%	1.6×1.2×0.1
NDAC120059	2.7	3.5	40	0.3	15	1.4	1.4	1ms, 30%	1.7×1.3×0.1
NDAC12043	2.7	3.5	150	0.5	17	1.5	1.5	CW	1.5×1.0×0.1
NDAC120088	4	6	80	0.6	15	1.7	1.7	1.5ms, 30%	1.5×1.0×0.1
NDAC120023	4	7	10	0.3	16	1.2	1.2	CW	1.3×1.8×0.1
NDAC120084	5	6	20	0.4	16	1.5	1.5	1ms, 25%	2.0×0.78×0.1
NDAC120024	5	6	30	0.5	17	1.5	1.5	100μs, 10%	0.8×0.9×0.1
NDAC120101	5	6	100	0.6	16	1.7	1.7	800μs, 20%	1.0×1.3×0.1
NDAC120025	5	6	150	0.6	17	1.6	1.5	800μs, 20%	1.0×1.3×0.1
NDAC120026	5	10	40	0.4	15	1.5	1.5	300μs, 50%	1.4×1.1×0.1
NDAC120065	5	13	46	0.55	16	1.5	1.5	200μs, 25%	1.45×1.2×0.1
NDAC120028	5	13	46	0.6	16	1.5	1.5	200μs, 25%	0.7×0.8×0.1
NDAC120102	5	13	150	0.8	15	2.0	2.0	100μs, 25%	1.2×1.2×0.1
NDAC120074	6	18	40	0.7	17	1.5	1.5	300μs, 30%	1.0×1.0×0.1
NDAC120033	6	18	100	0.8	16	1.6	1.6	1μs, 1%	0.95×0.8×0.1
NDAC120072	7	13	60	0.6	16	1.5	1.5	200μs, 15%	1.3×1.8×0.1
NDAC120060	8	12	10	0.3	15	1.3	1.3	CW	0.9×1.2×0.1
NDAC120061	8	12	10	0.3	15	1.3	1.3	CW	0.9×1.2×0.1
NDAC12048	8	12	10	0.5	16	1.5	1.5	CW	2.0×0.78×0.1
NDAC120104	8	12	15	0.4	16	1.5	1.5	1μs, 0.1%	0.8×0.9×0.1
NDAC120038	8	12	50	0.7	16	1.4	1.4	10ms, 30%	1.7×1.4×0.1
NDAC120103	8	12	100	0.7	20	1.5	1.5	3ms, 30%	2.82×2.78×0.1
NDAC120041	8.5	10.5	50	0.6	15	1.6	1.6	2ms, 30%	1.4×1.4×0.1
NDAC120040	9	10	50	0.6	15	1.6	1.6	2ms, 30%	1.4×1.4×0.1
NDAC120105	9.1	10.5	100	0.5	15	1.4	1.4	200μs, 15%	1.4×1.3×0.1
NDAC120045	10	18	25	0.8	16	1.4	1.4	3ms, 10%	1.4×1.1×0.1



Limiters (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	Limit Power (W)	IL (dB)	Clipping Level (dBm)	Input VSWR	Output VSWR	Mode	Dimensions (mm)
NDAC120092	12	18	25	0.4	16	1.5	1.5	4μs, 40%	1.0×1.3×0.1
NDAC120093	12	18	25	0.4	16	1.5	1.5	4μs, 40%	1.0×1.3×0.1
NDAC120094	14	18.2	5	0.6	15	1.4	1.4	20μs, 20%	1.0×0.7×0.1
NDAC120095	14	18.2	5	0.6	15	1.4	1.4	20μs, 20%	1.0×0.7×0.1
NDAC120096	15.5	16.5	40	0.7	16	1.5	1.5	100μs, 25%	1.4×1.45×0.1
NDAC120046	15.7	17.7	50	0.8	15	1.5	1.5	CW	1.4×1.1×0.1
NDAC120070	15.7	17.7	80	1	15	1.4	1.4	CW	1.45×1.2×0.1
NDAC120097	17.5	21.4	2	0.45	15	1.4	1.4	20μs, 20%	0.7×0.8×0.1
NDAC120048	20	22	8	0.9	16	1.5	1.5	CW	1.2×1.2×0.1
NDAC120049	32	38	6	0.8	18	1.5	1.5	CW	1.7×0.9×0.1
NDAC120050	32	40	2	1.3	16	2	2	CW	1.0×1.0×0.1
NDAC120099	33	37	2	0.9	13	1.3	1.3	CW	0.95×0.8×0.1
NDAC120100	33	37	2	0.9	13	1.3	1.3	CW	0.95×0.8×0.1
NDAC120092	12	18	25	0.4	16	1.5	1.5	4μs, 40%	1.0×1.3×0.1
NDAC120093	12	18	25	0.4	16	1.5	1.5	4μs, 40%	1.0×1.3×0.1
NDAC120094	14	18.2	5	0.6	15	1.4	1.4	20μs, 20%	1.0×0.7×0.1
NDAC120095	14	18.2	5	0.6	15	1.4	1.4	20μs, 20%	1.0×0.7×0.1
NDAC120096	15.5	16.5	40	0.7	16	1.5	1.5	100μs, 25%	1.4×1.45×0.1
NDAC120046	15.7	17.7	50	0.8	15	1.5	1.5	CW	1.4×1.1×0.1
NDAC120070	15.7	17.7	80	1	15	1.4	1.4	CW	1.45×1.2×0.1
NDAC120097	17.5	21.4	2	0.45	15	1.4	1.4	20μs, 20%	0.7×0.8×0.1
NDAC120048	20	22	8	0.9	16	1.5	1.5	CW	1.2×1.2×0.1
NDAC120049	32	38	6	0.8	18	1.5	1.5	CW	1.7×0.9×0.1
NDAC120050	32	40	2	1.3	16	2	2	CW	1.0×1.0×0.1
NDAC120099	33	37	2	0.9	13	1.3	1.3	CW	0.95×0.8×0.1
NDAC120100	33	37	2	0.9	13	1.3	1.3	CW	0.95×0.8×0.1

Low Noise Amplifiers

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	NF (dB)	G (dB)	P ₋₁ (dBm)	Input VSWR	V _D (V)	I _b (mA)	Helium (W/ppm)	Dimensions (mm)
NDAC020060	0.1	2	1.7	16.5	16	1.4	5	52	2	1.05×1.0×0.08
NDAC020062	0.35	18	1.5	17.5	17	2	5	80	2	2.0×1.77×0.1
NDAC020067	0.5	4	3	13	21	1.8	5	100	2	1.0×0.7×0.08
NDAC020004	0.8	2.7	1.5	27	10	1.8	5	23	2	2.2×1.3×0.1
NDAC020069	0.8	3.2	0.9	20	16	1.4	5	70	2	1.22×1.65×0.08
NDAC020072	0.8	3.2	1.8	18	17	1.4	5	68	2	1.22×1.3×0.08
NDAC020075	0.8	18	2	17	17	2	1.5	80	2	2.0×1.77×0.1
NDAC020077	0.8	18	3	15	14	2	5	50	2	3.3×1.8×0.1
NDAC020289	0.8	18	4.3	18	12	2.3	5	100	2	3.3×1.8×0.1
NDAC020083	1	9	0	20	17	1.4	5	50	/	1.0×1.0×0.1
NDAC020245	1	20	1.5	20	16	0	5	94	/	2.0×1.8×0.1
NDAC020085	1.1	1.6	0.6	30	7	1.6	5	21	2	2.0×1.0×0.1
NDAC020094	1.3	2.5	0.55	31	11	1.4	5	23	2	1.9×1.5×0.1
NDAC020095	1.9	2.1	0.55	30	11	1.3	5	23	2	1.9×1.5×0.1
NDAC020099	2	6	0.6	25	10	1.5	5	45	2	1.9×1.2×0.1
NDAC020006	2	6	0.7	30	15	1.5	5	60	2	1.8×1.2×0.1
NDAC020293	2	6	1	26	12	1.7	5	35	2	1.87×1.17×0.1
NDAC020114	2	6	1.3	23	1.5	1.5	5	15	2	2.0×1.0×0.1
NDAC020104	2	13	1	26	10	1.6	5	55	2	1.85×1.35×0.1
NDAC020292	2	18	1.4	21	10	1.8	5	40	2	1.4×1.3×0.1
NDAC020107	2	18	1.5	17	7	1.8	5	25	2	1.5×1.0×0.1
NDAC020108	2	18	1.5	19	13	2	5	45	2	1.5×1.0×0.1
NDAC020118	2.5	12	1	27	11	1.5	5	25	2	2.2×1.3×0.1
NDAC020124	2.7	3.5	0.6	29	10	1.5	5	26	2	1.7×1.5×0.1
NDAC020272	2.7	3.5	1.1	29	16	1.8	5	70	/	2.0×1.5×0.1
NDAC020294	3	18	1.8	28	6	1.8	5	30	/	2.0×1.3×0.1
NDAC020133	5	6	0.6	28	11	1.5	5	40	/	1.5×1.2×0.1
NDAC020135	5	6	1.5	15	15.5	1.2	5	38	2	1.63×1.18×0.1
NDAC020143	6	18	1.2	20	16	1.8	5	87	2	1.46×1.05×0.1
NDAC020247	6	18	1.2	30	8	2	5	25	2	1.7×1.0×0.1
NDAC020244	6	18	1.3	27	17	2	/	/	/	2.5×1.3×0.1
NDAC020297	6	18	1.3	30	6	1.7	5	20	2	2.0×1.0×0.1
NDAC020298	6	18	1.3	30	6	1.7	5	20	2	2.0×1.0×0.1
NDAC020248	6	18	1.6	18	15	1.5	5	85	2	1.43×1.01×0.08
NDAC020296	6	18	3.5	10	17	1.7	5	80	2	2.1×1.31×0.1



Low Noise Amplifier (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	NF (dB)	G (dB)	P ₋₁ (dBm)	Input VSWR	V _D (V)	I _D (mA)	Helium (W/ppm)	Dimensions (mm)
NDAC020299	7	11	1.2	24	8	1.6	5	38	2	1.72×1.6×0.1
NDAC020147	7	13	1.1	24	10	1.8	5	23	2	2.0×1.0×0.1
NDAC020013	8	12	0.8	26	8	1.4	5	20	2	1.5×1.2×0.1
NDAC020148	8	12	0.85	26	8	1.4	5	20	2	1.5×1.2×0.1
NDAC020155	8	12	1	21	5	1.7	5	15	2	1.5×1.0×0.1
NDAC020153	8	12	1	25	8	1.8	5	24	2	2.0×1.0×0.1
NDAC020014	8	12	1.05	27	8	1.5	5	22	2	1.3×1.33×0.1
NDAC020273	8	12	3	9	14	1.8	5	35	/	1.52×1.48×0.1
NDAC020162	9	10.2	0.7	26	6	1.8	5	20	2	1.17×1.0×0.1
NDAC020164	9.5	9.8	0.9	24	1.7	1.3	5	11	2	1.2×1.0×0.1
NDAC020165	10	13	0.9	21	8	1.7	5	17	2	1.2×1.2×0.1
NDAC020166	10	13	0.9	21	8	1.7	5	17	2	1.2×1.2×0.1
NDAC020243	10	18	1.1	28	4	1.5	5	20	2	1.0×1.65×0.1
NDAC020250	10	18	1.1	28	4	1.5	5	20	2	1.0×1.65×0.1
NDAC020283	10	18	1.2	26	2	1.7	5	13	2	1.84×0.97×0.1
NDAC020175	15.5	16.5	1.2	29	12	1.7	5	55	2	1.8×1.0×0.1
NDAC020290	18	25	1.6	27	0	2	5	13	2	2.0×1.0×0.1
NDAC020291	18	25	1.6	27	0	2	5	13	2	2.0×1.0×0.1
NDAC020177	18	40	2.3	25.5	8	3	5	105	2	1.87×1.3×0.1
NDAC020275	18	40	5	10	11.5	1.5	5	45	/	1.6×1.6×0.1
NDAC020251	24	26	1.5	25	7	1.5	5	27	2	1.77×0.97×0.1
NDAC020288	25	27.5	1.5	26.5	-5	1.5	3.3	9	2	1.9×1.22×0.1
NDAC020239	25	31	1.6	25	5	1.7	5	10	2	1.77×0.97×0.1
NDAC020197	27.5	31.5	1.5	27	-4	1.5	3.3	15	2	1.9×1.5×0.1
NDAC020295	32	37	2.2	20	8	1.8	5	28	2	1.56×0.85×0.1
NDAC020030	33	37	1.5	27	15	1.9	5	43	2	1.5×1.0×0.1
NDAC020214	33	37	2.1	23.5	2	1.5	5	16	2	1.05×0.95×0.1

Phase Shifters

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	Bits	Step (°)	RMS Phase Error (°)	IL / G (dB)	Amplitude Flatness (dB)	VSWR	Control Voltage (V)	Dimensions (mm)
NDAC030053	0.41	0.64	5	5.625	2	5.8	±1	1.8	0/+5	5.5×2.0×0.08
NDAC030055	0.45	0.65	6	5.625	1.5	7	±0.3	1.4	0/-5	8.43×1.79×0.1
NDAC030058	0.8	2.4	6	5.625	3	12	±1	1.5	0/-5	9.8×3.27×0.1
NDAC030056	0.8	2.7	6	5.625	2.5	12	±0.6	1.6	0/+5	3.3×3.6×0.08
NDAC030059	0.9	1.3	6	5.625	1.5	5	±0.3	1.4	0/-5	5.34×1.98×0.1
NDAC030060	1.1	1.6	6	5.625	1	4.5	±0.3	1.3	0/+5	4.48×2.08×0.08
NDAC03046	1.2	1.4	6	5.625	1	4	±0.3	1.3	0/-5	4.85×1.9×0.1
NDAC030061	1.2	1.8	4	2	1	1.2	±0.3	1.4	0/-5	1.4×0.9×0.08
NDAC030062	1.6	3.2	6	5.625	4	10	±0.5	1.4	0/-5	9.8×2.5×0.1
NDAC03011	2	2.5	6	5.625	1	4.8	±0.3	1.3	0/-5	4.5×1.5×0.1
NDAC030039	2	18	6	5.625	3	12	±1	2	-5/TTL	5.7×1.9×0.08
NDAC030040	2	18	6	5.625	3	12	±1	2	-5/TTL	5.7×1.9×0.08
NDAC030010	2	18	6	5.625	4	16	±1	2	0/-5	3.45×2.7×0.08
NDAC030041	2.7	3.5	6	5.625	1	5	±0.3	1.3	0/-5	4.18×1.5×0.1
NDAC03054	5	6	6	5.625	1	5.6	±0.3	1.3	0/-5	4.0×1.3×0.1
NDAC030063	5	18	6	5.625	3.5	13	-0.7~0.9	1.7	0/+5	2.1×1.7×0.08
NDAC030052	7	9	6	5.625	1	6.5	±0.3	1.3	0/+5	3.0×1.8×0.1
NDAC03021	8	12	6	5.625	1.5	7.5	±0.4	1.4	0/-5	4.05×1.86×0.1
NDAC030064	8	12	6	5.625	1.8	6.5	±0.6	1.4	0/+5	2.4×1.7×0.08
NDAC030065	8.5	10.5	6	5.625	1.5	7	±0.3	1.3	0/-5	4.05×1.36×0.1
NDAC030066	9	10	6	5.625	1	6.5	±0.3	1.3	0/-5	4.05×1.36×0.1
NDAC030070	9.1	10.3	2	36	3	0.9	±0.5	1.6	-2/18	5.0×4.15×0.1
NDAC03105	17	21	6	5.625	2	8	±0.6	1.5	0/-5	3.5×1.46×0.08
NDAC030026	18	40	6	5.625	4	13	±1	2	0/+5	2.8×1.4×0.08
NDAC030071	18	40	6	5.625	4	13	±1.2	2	0/-5	2.8×1.4×0.08
NDAC03033	22	26	6	5.625	2	9	±0.6	1.5	0/-5	3.19×1.39×0.1
NDAC03109	25	31	6	5.625	3	7	±0.5	1.5	0/-5	2.9×1.35×0.08
NDAC03078	30	40	6	5.625	3.5	7.5	±0.6	1.8	0/-5	2.8×1.1×0.08
NDAC03077	33	37	6	5.625	4.5	10	±1	1.8	0/-5	2.8×1.1×0.08



Digital Attenuators

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	Bits	Step (dB)	IL (dB)	Attenuation Accuracy	VSWR	Switch Time (ns)	Control Voltage (V)	Dimensions (mm)
NDAC05001	0	4	6	0.5	1.3	$\pm(0.3+4\%Ai)$	1.3	20	0/-5	2.1×0.95×0.1
NDAC05025	0	6	6	0.25	0.8	$\pm(0.3+5\%Ai)$	1.3	20	0/-5	2.0×0.8×0.1
NDAC05055	0	6	6	0.5	2	$\pm(0.3+5\%Ai)$	1.3	20	0/-5	2.2×1.0×0.1
NDAC05038	0	6	7	0.5	4	$\pm(0.2+6\%Ai)$	1.4	20	0/-5	4.32×1.2×0.1
NDAC05010	0	6.5	5	0.5	2	$\pm(0.2+5\%Ai)$	1.3	20	0/-5	2.33×1.2×0.1
NDAC050052	0	8	1	32	2	± 2.5	1.4	20	0/-5	1.45×1.2×0.1
NDAC05035	0	8	6	0.3	2.5	$\pm(0.2+5\%Ai)$	1.4	20	0/-5	2.35×1.2×0.1
NDAC05003	0	10	4	0.3	1.3	$\pm(0.2+5\%Ai)$	1.4	20	0/-5	1.45×1.2×0.1
NDAC05061	0	12	4	0.25	0.8	± 0.2	1.3	20	TTL(-5)	1.4×1.2×0.1
NDAC050046	0	12	4	0.25	0.7	± 0.2	1.3	20	TTL(-5)	1.4×1.2×0.1
NDAC05004	0	12	6	0.25	2.5	$\pm(0.2+5\%Ai)$	1.3	20	0/-5	2.33×1.13×0.1
NDAC05022	0	18	1	10	1.5	± 0.5	1.2	20	TTL(-5)	0.8×1.0×0.08
NDAC050053	0	18	1	20	2	± 1	1.4	20	0/-5	1.2×0.95×0.1
NDAC050014	0	18	1	20	1.5	± 1	1.2	20	TTL(-5)	0.8×1.0×0.08
NDAC05030	0	18	3	0.2	0.5	± 0.2	1.5	20	0/-5	1.2×1.03×0.1
NDAC05005	0	18	3	0.5	1.5	± 0.3	1.3	20	0/-5	1.22×1.2×0.1
NDAC050065	0	18	6	0.3	3.5	$\pm(0.2+5\%Ai)$	1.4	20	0/-5	2.35×1.2×0.1
NDAC050041	0	18	6	0.5	4	$\pm(0.3+5\%Ai)$	1.3	20	0/-5	2.6×1.0×0.1
NDAC050050	0	18	6	0.5	4	$\pm(0.3+5\%Ai)$	1.3	20	TTL	2.6×1.35×0.1
NDAC050051	0	18	6	0.5	3.5	± 0.4	1.2	20	TTL	2.2×1.0×0.1
NDAC050048	0	18	6	0.5	2.5	0.2	1.2	20	LTTL	2.58×1.04×0.1
NDAC050054	0	20	1	32	2	± 1.5	1.4	20	0/-5	1.2×1.1×0.1
NDAC05066	0	20	5	0.5	2.5	$\pm(0.3+5\%Ai)$	1.3	20	TTL(-5)	2.0×1.15×0.1
NDAC050067	0.1	18	2	10	0.8	0.8	1.4	20	LTTL	1.0×1.0×0.08
NDAC050066	0.1	18	3	5	3.2	0.7	1.5	20	LTTL	1.3×1.0×0.08
NDAC050073	0.3	18	5	2	1.5	0.8	1.5	50	TTL	2.0×1.65×0.08
NDAC050047	1	8	6	0.5	2	$\pm(0.3+5\%Ai)$	1.3	20	TTL(+5)	1.5×1.0×0.08
NDAC050072	2	6	1	20	0.3	0.3	1.4	20	LTTL	1.0×1.0×0.08
NDAC050011	2	18	1	10	2	± 1	1.6	20	0/-5	0.8×0.8×0.08
NDAC050012	2	18	1	20	2	± 2	1.5	20	0/-5	0.8×0.8×0.08
NDAC050068	2	26	5	1	0.3	0.3	1.3	20	LTTL	1.8×1.8×0.1
NDAC05014	5	6	6	0.5	1.8	$\pm(0.3+4\%Ai)$	1.4	20	0/-5	3.25×1.0×0.1
NDAC050022	6	18	3	5	3.5	$\pm(0.3+5\%Ai)$	1.5	20	0/-5	2.49×1.24×0.1
NDAC050024	6	18	6	0.5	5	$\pm(0.3+8\%Ai)$	1.5	20	0/-5	3.25×1.2×0.1
NDAC050074	7	13	1	16	1.1	0.3	1.3	20	LTTL	1.0×0.8×0.08

Digital Attenuators (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	Bits	Step (dB)	IL (dB)	Attenuation Accuracy	VSWR	Switch Time (ns)	Control Voltage (V)	Dimensions (mm)
NDAC05015	8	12	6	0.5	3.5	$\pm(0.3+5\%Ai)$	1.4	20	0/-5	3.25×1.25×0.1
NDAC050028	14	18	3	25	0.8	± 1.5	1.4	20	0/-5	0.8×1.0×0.08
NDAC05033	14	18	6	0.5	4.5	$\pm(0.3+5\%Ai)$	1.4	20	0/-5	3.0×1.25×0.1
NDAC05034	17	23	5	0.5	2.5	$\pm(0.3+5\%Ai)$	1.5	20	0/-5	1.35×1.08×0.1
NDAC050031	19	23	6	0.5	2	$\pm(0.3+5\%Ai)$	1.5	20	0/-5	3.25×1.0×0.1
NDAC05016	20	30	6	0.5	3	$\pm(0.3+7\%Ai)$	1.5	20	0/-5	2.75×1.0×0.1
NDAC05017	20	40	3	0.4	1.8	$\pm(0.2+5\%Ai)$	1.4	20	0/-5	0.85×0.75×0.1
NDAC05018	20	40	5	0.5	1.8	$\pm(0.3+7\%Ai)$	1.4	20	0/-5	2.35×1.0×0.1
NDAC050035	25	50	6	0.5	3.5	$\pm(0.3+6\%Ai)$	1.5	20	0/-5	3.1×1.05×0.1
NDAC05067	30	40	1	20	1.2	± 1	1.3	20	TTL(-5)	1.5×1.0×0.08
NDAC050075	32	37	5	2	4.9	0.6	1.5	50	TTL	1.3×1.5×0.08

Time Delayers

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	Bits	Step (ps)	IL (dB)	Delay Accuracy	Amplitude Flatness (dB)	VSWR	Control Voltage (V)	Dimensions (mm)
NDAC04035	0.3	2	6	25	11	$\pm(T \times 10\%)$	± 0.7	1.5	0/-5	4.0×5.0×0.08
NDAC040002	0.3	2	6	25	11	$\pm(T \times 10\%)$	± 0.7	1.5	-5/TTL	5.0×4.35×0.08
NDAC04019	0.5	6	8	5	16	$\pm(T \times 5\%)$	± 1	1.4	0/-5	5.5×3.5×0.1
NDAC040009	2	6	2	2.5	1.5	$\pm 0.8\text{PS}$	± 0.3	1.2	-5/TTL	1.6×2.0×0.1
NDAC040011	2	6	7	10	18.5	$\pm(T \times 5\%)$	± 1	1.4	-5/TTL	4.0×5.5×0.08
NDAC040013	2	18	5	2.5	11	$\pm(T \times 5\%)$	± 0.8	1.6	-5/TTL	2.4×3.1×0.08
NDAC040089	2	18	7	5	23	$\pm(T \times 3\%)$	± 0.8	1.4	-5/TTL	4.3×2.2×0.08
NDAC040024	6	18	1	320	8.5	$\pm 7\text{PS}$	± 0.42	1.3	-5/TTL	3.15×2.4×0.08
NDAC040085	6	18	1	320	8.5	$\pm 7\text{PS}$	± 0.42	1.3	-5/TTL	3.15×2.4×0.08
NDAC040019	6	18	2	384	27	$\pm(T \times 10\%)$	± 1.8	1.4	-5/TTL	3.3×5.0×0.1
NDAC040081	6	18	6	6	18	$\pm(T \times 5\%)$	± 1	1.4	-5/TTL	2.5×4.0×0.08
NDAC040022	6	18	7	5	24	$\pm(T \times 5\%)$	± 1	1.4	-5/TTL	5.7×2.8×0.08
NDAC040057	6	18	7	5	24	$\pm(T \times 5\%)$	± 1	1.4	-5/TTL	5.7×2.8×0.08
NDAC040021	6	18	7	6	26.5	$\pm(T \times 10\%)$	± 1	1.3	-5/TTL	6.2×2.8×0.1
NDAC040068	7	13	1	4 λ	8	$\pm(T \times 10\%)$	± 0.4	1.6	-5/TTL	2.22×2.42×0.08
NDAC040069	7	13	1	8 λ	14	$\pm(T \times 10\%)$	± 0.5	1.6	-5/TTL	4.37×1.97×0.08
NDAC040070	7	13	4	0.5 λ	20	$\pm(T \times 10\%)$	± 0.8	1.6	-5/TTL	4.37×3.37×0.08
NDAC040058	7.6	11.8	3	104	18.5	$\pm(T \times 10\%)$	± 0.5	1.5	-5/TTL	5.0×3.0×0.08
NDAC040028	8	12	1	415	8.5	$\pm(T \times 10\%)$	± 0.5	1.5	0/-5	2.3×4.7×0.08
NDAC040059	8	12	1	4 λ	8	$\pm(T \times 5\%)$	± 0.5	1.4	-5/TTL	2.13×2.94×0.08
NDAC04058	8	12	2	50	6	$\pm(T \times 8\%)$	± 0.5	1.5	-5/TTL	2.4×1.6×0.08
NDAC04002	8	12	3	105	12	$\pm(T \times 10\%)$	± 0.3	1.4	0/-5	3.4×3.1×0.1
NDAC04009	8	12	3	1 λ	12	$\pm(T \times 5\%)$	± 0.3	1.4	-5/TTL	3.2×3.4×0.08
NDAC04003	8	12	4	0.25 λ	12	10PS	± 0.5	1.4	0/-5	3.45×2.25×0.1
NDAC040091	8	12	4	0.25 λ	12	10PS	± 0.5	1.4	-5/TTL	3.95×4.75×0.08
NDAC040092	8	12	6	/	8	4°	± 0.3	1.5	0/-5	4.8×1.7×0.1
NDAC040055	9.1	10.3	1	/	11	/	± 0.3	1.3	0/-5	3.0×3.0×0.08
NDAC040052	13	15	1	16 λ	21	$\pm 30^\circ$	± 0.4	1.3	0/-5	3.2×4.0×0.08
NDAC040079	17.3	21.2	3	1 λ	14.5	/	± 0.4	1.5	-5/TTL	2.3×3.3×0.08
NDAC040078	17.5	21.2	4	1 λ	26	$\pm(\text{PH} \times 3\%)$	± 1	1.4	-5/TTL	3.2×4.5×0.08
NDAC040076	18	40	6	1	16.5	$\pm(\text{PH} \times 5\%)$	± 1	1.4	-5/TTL	1.7×4.2×0.08
NDAC040090	29	31	1	264	9	$\pm(T \times 5\%)$	± 0.5	1.3	-5/TTL	1.9×2.2×0.08
NDAC04021	32	36	1	470	16	$\pm(T \times 8\%)$	± 1	1.6	0/-5	3.2×2.9×0.08
NDAC04022	32	36	4	29.5	26	$\pm(T \times 8\%)$	± 1	1.4	0/-5	4.0×2.9×0.08

Frequency Mixers

Part Number	Type	RF Start Freq. (GHz)	RF Stop Freq. (GHz)	LO Start Freq. (GHz)	LO Stop Freq. (GHz)	IF Start Freq. (GHz)	IF Stop Freq. (GHz)	IL (dB)	LO P _{DR} (dBm)	P ₋₁ (dBm)	Dimensions (mm)
NDAC09016	Double Balanced	0.1	50	0.1	50	0	4	6.5	0	0	0.84×0.65×0.1
NDAC09017	Double Balanced	0.1	67	0.1	26.5	0	4	18	0	5/-2	0.85×0.65×0.1
NDAC090003	Double Balanced	0.5	1.5	0.5	1.5	0	1.2	-11	13	6	3.71×2.1×0.1
NDAC09018	Double Balanced	0.5	3	0.5	3	0	1.3	-8.5	13	6	3.48×2.0×0.08
NDAC09003	Double Balanced	1.6	4.9	1.6	4.9	0	2.4	-7	13	10	2.44×2.0×0.08
NDAC090006	Double Balanced	1.8	5	1.8	5	0.1	2	-9.5	13	6	1.99×1.5×0.1
NDAC09019	Double Balanced	2	6	2	6	0	4	-7	13	9	2.4×1.6×0.08
NDAC090010	Double Balanced	3	20	3	20	0	4	-10	13	10	1.9×1.17×0.08
NDAC09021	I/Q	3.6	8	3.6	8	0	2.5	-10.5	17	7	2.43×2.14×0.08
NDAC090013	I/Q	4	8	4	8	0	2	-12	17	12.5	2.43×2.14×0.08
NDAC090116	Double Balanced	6	18	6	18	0	6	-8	13	11	1.42×1.05×0.1
NDAC09025	I/Q	8.5	13.5	8.5	13.5	0	3.3	-9	15	10	1.49×1.14×0.08
NDAC090120	Passive	10	40	10	45	0	14	7	13	11	1.17×0.77×0.1
NDAC09027	I/Q	14	24	14	24	0	3.5	-9.5	17	10	1.49×1.14×0.08
NDAC090027	Double Balanced	18	50	18	50	0	50	-10	15	5	1.3×0.97×0.08
NDAC09031	I/Q	31	38	31	38	0	3	-10	17	13	1.6×1.35×0.08
NDAC090098	Harmonic	34	50	8.58	12.58	0	3	-14	19	5	1.80×1.66×0.1
NDAC090097	Double Balanced	40	90	40	90	0	30	-8	15	8	1.34×1.23×0.1
NDAC090036	Passive	41	90	40	89	DC	18	9	9	6	1.03×1.68×0.05
NDAC090038	Double Balanced	45	53	26	33	16	25	-8	13	12	1.5×1.0×0.08
NDAC090083	Passive	50	74	51	75	DC	18	8.5	9	6	1.03×1.68×0.05
NDAC090051	Single Balanced	75	110	75	110	0	20	-8.5	13	11	1.0×1.3×0.08
NDAC090052	Passive	75	110	76	110	DC	18	10	10	8	1.03×1.6×0.05

Frequency Multipliers

Part Number	Input Start Freq. (GHz)	Input Stop Freq. (GHz)	Input Start Power (GHz)	Input Stop Power (GHz)	Output Start Freq. (GHz)	Output Stop Freq. (GHz)	Pout (dBm)	Dimensions (mm)
NDAC220041	1.9	2.9	-10	5	7.6	11.4	8	1.6×1.0×0.1
NDAC220040	2	3	-5	5	4	6	6	1.25×1.03×0.1
NDAC220001	3	10	11	19	6	20	2	1.3×1.0×0.08
NDAC220002	3	11	6	14	6	22	-2.5	0.8×0.8×0.08
NDAC220003	4	10.5	3	9	8	21	17	1.7×1.0×0.08
NDAC220013	6.25	10	0	6	25	40	15	1.9×1.2×0.08
NDAC220004	7.3	15	0	6	22	45	2	1.65×0.85×0.1
NDAC220006	7.5	25	0	6	15	50	15	1.56×1.62×0.08
NDAC220020	8.5	9.5	13	14	34	38	12	2.78×1.68×0.08
NDAC220027	9.8	12	-3	3	79	96	8	1.85×1.2×0.1
NDAC220030	10	11.75	11	15	80	94	13	3.65×1.68×0.05
NDAC220025	10	20	-10	0	20	40	0	1.6×1.0×0.1
NDAC220034	10	20	-5	5	20	40	14	1.9×1.0×0.1
NDAC220036	11	21	5	11	22	44	10	3.6×2.4×0.08
NDAC220010	11	22	0	6	22	44	18	1.95×1.15×0.08
NDAC220024	11.5	13	-10	0	23	26	10	1.4×1.0×0.1
NDAC220011	12	16.5	3	4	24	33	15	1.23×1.18×0.08
NDAC220012	12	16.5	3	4	24	33	15	1.23×1.18×0.08
NDAC220031	14	16.5	-5	5	56	66	14	2.2×1.0×0.1
NDAC220044	14	20	-10	0	28	40	9	1.6×1.05×0.1
NDAC220035	14	28	-5	5	28	40	8	2.95×1.6×0.1
NDAC220033	25	36.7	7	13	75	110	5	1.3×1.2×0.1
NDAC220026	28	33.5	-4	4	56	67	15	1.8×1.25×0.1

P Band GaN Power Transistors

Part Number	Start Freq. (MHz)	Stop Freq. (MHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM011851	10	50	5	50	17	28	200us,8%	Pre-Matched	C406T	11.0×4.0×2.5
NDNM011852	10	50	50	60	17	28	200us,8%	Pre-Matched	JY02F064T	13.1×6.4×3.6
NDNM012313	135	275	650	70	16	42	1ms,25%	Pre-Matched	JY04F505	35.91×10.16×4.0
NDNM011853	137	168	700	72	18	40	1ms,25%	Pre-Matched	JY04F217	34.1×9.8×5.1
NDNM012312	220	280	20	45	18	50	200us,10%	Pre-Matched	C164-2	24.0×17.4×5.0
NDNM012311	220	280	400	75	17	50	300us,15%	Pre-Matched	JY04F217	34.1×10.2×5.0
NDNM011854	223	268	700	70	17	40	1ms,25%	Pre-Matched	JY04F217	34.1×9.8×5.1
NDNM011855	350	450	1300	70	19	50	200us,15%	Pre-Matched	JY04F503	41.1×10.1×3.4
NDNM01233	410	480	1500	70	18.5	50	300us,10%	Pre-Matched	JY04F503	41.1×10.1×3.4
NDNM011809	410	480	2000	72	18.5	60	300us,10%	Pre-Matched	JY04F503	41.1×10.1×3.4
NDNM011856	410	485	2500	72	17.5	60	300us,10%	Pre-Matched	C312	41.2×10.1×3.4
NDNM01203	410	610	500	70	17	42	1.3ms,35%	Pre-Matched	JY04F505	35.91×10.16×4.0
NDNM01204	425	475	700	75	19	50	PL	Pre-Matched	JY04F503	41.1×10.1×3.4
NDNM01205	425	475	1300	72	18	50	PL	Pre-Matched	JY04F503	41.1×10.1×3.4
NDNM01206	480	610	600	70	17	50	1ms,25%	Pre-Matched	JY04F503	41.1×10.1×3.4
NDNM01207	485	606	530	73	17	36	3ms,30%	Pre-Matched	JY04F217	34.1×9.8×5.1
NDNM011857	485	606	1200	75	18	60	20ms,36%	Pre-Matched	JY04F313	41.2×10.2×5.0

L Band GaN Power Transistors

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM01208	0.96	1.25	250	65	15	50	PL	Pre-Matched	JY02F015	26.1×10.2×3.7
NDNM01211	0.96	1.25	650	65	15	50	PL	Pre-Matched	JY02F019	29.3×10.2×3.7
NDNM011859	1.03	1.09	100	65	17	50	PL	Pre-Matched	JY02F015	26.11×10.2×3.1
NDNM011813	1.1	1.7	220	60	13	28	CW	Pre-Matched	JY02F008	34.04×9.78×2.35
NDNM01173	1.1	1.9	50	50	10	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011701	1.12	1.48	300	58	14	50	50us, 10%	Inter-Matched	JF06F016	30.8×27.4×5.0
NDNM011702	1.15	1.24	15	63	15	28	CW	Inter-Matched	C164-2T	24.0×17.4×4.9
NDNM011811	1.15	1.24	120	68	14	28	CW	Pre-Matched	JY02F058T	29.28×10.2×3.85
NDNM011861	1.2	1.3	35	60	14	45	PL	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM01235	1.2	1.3	500	70	15	50	PL	Pre-Matched	JY02F015	26.1×10.2×3.7
NDNM02146	1.2	1.4	50	50	13	28	1ms, 10%	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM01006	1.2	1.4	130	60	14	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01104	1.2	1.4	200	60	14	32	PL	Inter-Matched	C164-2	24.0×17.4×5.0

L Band GaN Power Transistors (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM01174	1.2	1.4	250	60	13	32	300us, 10%	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM01214	1.2	1.4	250	65	14	50	300us, 10%	Pre-Matched	JY02F019	29.3×10.2×3.7
NDNM011814	1.2	1.4	300	65	15	50	PL	Inter-Matched	JF06F016	30.8×27.4×5.0
NDNM01215	1.2	1.4	400	60	15	50	6ms, 30%	Pre-Matched	JY02F015	26.1×10.2×3.7
NDNM01216	1.2	1.4	500	68	15	50	3ms, 30%	Pre-Matched	JY02F015	26.1×10.2×3.7
NDNM01217	1.2	1.4	650	68	15	50	PL	Pre-Matched	JY02F019	29.3×10.2×3.7
NDNM01175	1.2	1.6	150	60	13	28	PL	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011862	1.25	1.28	44.5	65	16.5	2B	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011863	1.25	1.29	63	64	31.5	25	CW	Inter-Matched	JF06F016	30.8×27.4×5.0
NDNM020002	1.25	1.3	15	63	15	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011864	1.5	1.7	27	60	15	2B	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM01213	1.6	1.6	80	70	12	28	CW	Pre-Matched	JY02F005	22.8×10.1×3.2
NDNM020003	1.6	2	500	/	13	48	1us, 2%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM020063	1.61	1.64	31	63	13	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011866	1.634	1.734	55	60	13.5	2B	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM012314	1.69	1.71	25	60	13	2B	CW	Inter-Matched	JF04F002	21.0×13.0×5.3
NDNM011821	1.9	2.1	60	60	13	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM020064	1.95	2.05	12.5	60	15	28	CW	Inter-Matched	JF04F002	21.0×13.0×5.3

S Band GaN Power Transistors

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM02147	2	2.4	12.5	55	12	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011867	2	3	50	38	10	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM01176	2	3	100	45	13	32	CW	Inter-Matched	JF06F016	30.8×27.4×5.0
NDNM01108	2.2	2.3	10	57	12	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01109	2.2	2.3	12	57	13	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011868	2.2	2.3	12	35	32	28	CW	Inter-Matched	JF04F001	18.7×22.0×4B
NDNM021101	2.2	2.3	12.5	60	15	28	CW	Inter-Matched	JF04F002	21.0×13.0×5.3
NDNM01110	2.2	2.3	40	57	13	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01111	2.2	2.3	80	57	13	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM015005	2.2	2.4	50	60	13	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011827	2.2	2.4	700	60	12	48	1us, 1%	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM011828	2.2	2.5	800	60	12	48	10us, 2%	Inter-Matched	C164-1	24.0×17.4×4.4

S Band GaN Power Transistors (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM01008	2.3	2.5	100	60	13	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM020057	2.3	2.5	200	55	12	45	500us,12%	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011869	2.3	2.5	200	60	11	32	450us,15%	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM011705	2.3	2.5	300	60	11	32	450us,15%	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM011829	2.3	2.7	180	55	12	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011778	2.3	2.7	300	55	12	50	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011870	2.4	2.5	130	55	12	28	CW	Inter-Matched	JF06F016	30.8×27.4×5.0
NDNM01181	2.5	2.5	10	55	12	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM01222	2.5	2.5	40	55	11.5	28	CW	Pre-Matched	H102-11	22.9×9.9×5.5
NDNM01114	2.5	2.5	80	63	13	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01182	2.5	2.5	100	60	13	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011871	2.5	2.5	140	55	13.5	36	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011830	2.6	2.6	250	60	13	50	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011872	2.7	2.9	280	60	13	36	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01116	2.7	2.9	500	55	12	50	PL	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM01501	2.7	3.1	130	55	12	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01118	2.7	3.1	180	57	12	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01119	2.7	3.1	300	55	12	50	PL	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM01183	2.7	3.1	400	55	12	50	PL	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM011873	2.7	3.1	500	55	13	50	100us,1ms	Inter-Matched	JF06F016	30.8×27.4×5.0
NDNM01010	2.7	3.5	40	45	12	28	PL	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011874	2.7	3.5	45	50	14	32	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM01120	2.7	3.5	60	55	12	32	PL	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM01011	2.7	3.5	80	55	12	32	PL	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011804	2.7	3.5	80	50	11	28	CW	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM01121	2.7	3.5	100	55	12	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01184	2.7	3.5	120	55	12	32	200us,20%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM010012	2.7	3.5	150	55	12	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM020058	2.7	3.5	200	50	10	32	CW	Inter-Matched	JF06F016	30.8×27.4×5.0
NDNM011875	2.7	3.5	200	50	12	32	2ms,30%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01122	2.7	3.5	250	55	12	32	200us,20%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01510	2.7	3.5	250	50	12	36	CW	Inter-Matched	JF06F016	30.8×27.4×5.0
NDNM01185	2.7	3.5	400	55	12	50	200us,10%	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM020038	2.7	3.5	440	50	12	48	100us,10%	Inter-Matched	JF06F016	30.8×27.4×5.0
NDNM011876	2.7	3.5	500	50	12.8	48	200us,20%	Inter-Matched	C164-1F	24.0×17.4×4.4

S Band GaN Power Transistors (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM01013	3	3.4	80	60	12	28	PL	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011706	3	3.5	5	45	26	28	3ms,30%	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011707	3	3.5	40	50	12	48	3ms, 30%	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011877	3	3.5	400	55	12	48	3ms,30%	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM011832	3.1	3.3	160	60	12	32	60us,15%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011833	3.1	3.3	240	60	13	32	60us,15%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011878	3.1	3.3	400	62	13	48	100us,20%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011834	3.1	3.4	180	60	11	28	3ms,30%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01034	3.1	3.4	300	55	12	32	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01123	3.1	3.5	100	60	12	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01124	3.1	3.5	200	60	12	32	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01125	3.1	3.5	300	55	12	36	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01186	3.1	3.5	400	55	12	50	PL	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM01126	3.3	3.7	180	57	11	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01127	3.7	4.2	60	60	12	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01128	3.7	4.2	100	55	12	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01187	3.7	4.2	300	55	10	32	200us,20%	Inter-Matched	C164-1	24.0×17.4×4.4

C Band GaN Power Transistors

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM011708	4.2	4.5	120	55	11	28	100us, 10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01035	4.4	5	30	50	11	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01130	4.4	5	60	50	11	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01131	4.4	5	100	45	10	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01014	4.4	5	120	55	10	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01132	4.4	5	200	55	10	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01133	4.4	5	250	55	10	32	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01188	5	6	8	45	11	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01189	5	6	80	45	10	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011709	5	6	250	50	10	32	350us, 35%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011711	5.2	5.8	120	50	13	32	200us,20%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011712	5.2	5.8	160	50	11	32	300us,30%	Inter-Matched	C164-1	24.0×17.4×5.0
NDNM011713	5.2	5.8	250	50	10	32	300us,30%	Inter-Matched	C164-1	24.0×17.4×5.0

C Band GaN Power Transistors (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM011714	5.2	5.8	400	50	12	50	100us, 10%	Inter-Matched	C164-1	24.0×17.4×5.0
NDNM011710	5.2	5.9	50	50	10	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011715	5.2	6	100	50	10	36	30ms, 30%	Inter-Matched	C164-1	24.0×17.4×5.0
NDNM011716	5.2	6	200	50	10	36	30ms, 30%	Inter-Matched	C164-1	24.0×17.4×5.0
NDNM01134	5.3	5.9	30	55	11	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01016	5.3	5.9	60	52	11	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01017	5.3	5.9	120	52	10	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011717	5.3	5.9	160	50	10	28	CW	Inter-Matched	C164-1F	24.0×17.4×4.4
NDNM01037	5.3	5.9	200	52	10	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01135	5.3	5.9	250	50	10	32	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01190	5.3	5.9	400	50	11	50	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011718	5.3	5.9	500	50	11	50	100us, 10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011719	5.3	5.9	1200	40	10	50	500ns, 1.5%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01191	5.7	6.3	80	45	10	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011720	5.8	6.7	100	50	10	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01136	5.9	6.4	30	45	10	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01138	5.9	6.4	100	45	10	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011721	6	6.6	150	50	9	28	200us, 20%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM020004	6	7.5	20	36	10	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM01038	6.4	7.2	80	45	9	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011789	6.4	7.2	150	45	9	28	1ms, 30%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01141	6.4	7.2	200	45	9	28	1ms, 30%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011722	6.9	7.3	25	45	11	28	100us, 10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011723	6.9	7.3	80	45	11	28	100us, 10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011724	6.9	7.3	180	45	9	28	100us, 10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01142	7	7.5	30	45	9	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01143	7	7.5	60	45	9	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01195	7.2	7.7	60	55	9	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4



X & Ku Band GaN Power Transistors

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _p (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM011725	7.7	8.3	25	45	8	32	150us;10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011726	7.7	8.3	70	45	9	32	150us;10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01040	7.7	8.5	70	45	8	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011727	7.7	8.5	110	45	8	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011842	7.7	8.5	150	45	8.5	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011843	7.7	8.5	200	45	8.5	32	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01196	8	8.5	60	55	9	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011879	8	8.5	600	40	8	60	100us;10%	Inter-Matched	C186-1	26.4×17.4×4.6
NDNM011844	8	9	320	40	9	50	PL	Inter-Matched	C186-1	26.4×17.4×4.6
NDNM011880	8.2	8.8	600	40	9	65	PL	Inter-Matched	C186-1	26.4×17.4×4.6
NDNM011845	8.2	8.8	1500	35	8	70	5us;2‰	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011846	8.4	8.6	400	35	10	50	5us;2‰	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01023	8.5	9.6	50	50	8	28	PL	Inter-Matched	C129-10	21.0×12.9×4.7
NDNM01197	8.5	9.6	50	43	8	28	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01150	8.5	9.6	100	45	8	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01041	8.5	9.6	150	40	8	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01151	8.5	9.6	200	40	8	32	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011728	8.5	9.6	250	40	8	40	600us;17%	Inter-Matched	C186-1	26.4×17.4×4.6
NDNM011847	8.5	9.6	250	40	8	40	100us;10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011848	8.5	9.6	300	40	8	50	100us;10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011786	8.5	9.6	400	35	8	50	100us;10%	Inter-Matched	C186-1	26.4×17.4×4.6
NDNM011729	8.5	10	60	40	8	28	PL	Inter-Matched	C129-10	21.0×12.9×4.7
NDNM01152	8.5	10	100	40	8	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011881	8.9	9.9	250	45	9	40	200us;20%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011732	9	9.5	600	30	10	70	100us;10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01199	9	10	50	40	8	28	CW	Inter-Matched	C129-10	21.0×12.9×4.7
NDNM011730	9	10	60	40	8	24	PL	Inter-Matched	C129-10	21.0×12.9×4.7
NDNM01021	9	10	100	40	8	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01153	9	10	150	40	8	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01154	9	10	200	40	8	32	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011731	9	10	250	40	8	40	100us;10%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011773	9	10.5	70	40	9	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011733	9.5	10	1000	30	9	70	10us;1%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01302	9.5	10.5	150	36	8	28	50us;20%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01043	9.5	10.5	200	38	8	32	PL	Inter-Matched	C164-1	24.0×17.4×4.4

X & Ku Band GaN Power Transistors (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _p (dB)	V _d (V)	Mode	Type	Package	Dimensions (mm)
NDNM011734	9.5	10.5	250	33	8.5	50	500ns;33us	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01157	9.5	11	100	35	8	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011736	9.6	10.6	250	40	8	40	300us;20%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011735	10	10.3	1000	30	8	50	500ns;1.67%	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01303	10	10.4	70	32	7.5	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011849	10	10.4	1000	30	8	50	500ns;33us	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011737	11.2	11.8	60	33	7	32	PL	Inter-Matched	C129-10	21.0×12.9×4.7
NDNM01044	11.2	11.8	200	33	7	32	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011850	11.2	11.8	300	40	9	70	6us;2‰	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011738	11.2	11.8	600	25	7	70	6us;2‰	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01045	11.8	12.2	65	33	7	32	PL	Inter-Matched	C129-10	21.0×12.9×4.7
NDNM01046	11.8	12.2	200	30	6.5	32	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM011739	12.2	12.8	80	33	7	24	CW	Inter-Matched	JF02F047	24.0×12.9×4.4
NDNM01159	13.1	13.3	120	30	6	28	PL	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01160	13.7	14.2	50	30	5	28	PL	Inter-Matched	C129-10	21.0×12.9×4.7
NDNM01161	13.75	14.5	50	30	6	24	CW	Inter-Matched	C129-10	21.0×12.9×4.7
NDNM011740	13.75	14.5	70	30	6	24	CW	Inter-Matched	JF02F047	24.0×12.9×4.4
NDNM01162	13.75	14.5	80	30	5.5	24	CW	Inter-Matched	C164-1	24.0×17.4×4.4
NDNM01304	14.9	15.1	6	30	5	28	CW	Inter-Matched	C129-10	21.0×12.9×4.7
NDNM01305	14.9	15.1	20	30	5	28	CW	Inter-Matched	C129-10	21.0×12.9×4.7

Wide-band GaN Power Transistors & Modules

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _p (dB)	V _d (V)	Mode	Type	Package	Dimensions (mm)
NDNM011741	9K	0.4	2	20	14	28	CW	Pre-Matched	C64-1	6.35×13.0×2.7
NDNM011742	9K	0.4	15	40	16	28	CW	Pre-Matched	JY04F635	6.35×18.9×2.7
NDNM011743	9K	0.4	100	45	17	28	CW	Pre-Matched	JY04F586	5.8×29.0×3.0
NDNM011882	0.001	0.01	100	65	17	28	CW	Pre-Matched	JY02F360	5.8×20.3×3.1
NDNM020005	0.009	0.4	100	40	48	28	CW	PA Module	Metal Pack	250.0×100.0×40.0
NDNM020006	0.03	0.52	200	65	15	40	CW	PA Module	Plat Carrier	100.0×65.0×25.0
NDNM011744	0.03	0.9	40	60	17	28	CW	Pre-Matched	JY04F635	6.35×18.9×2.7
NDNM020007	0.03	0.9	200	56	13	40	CW	PA Module	Plat Carrier	116.0×52.0×14.0
NDNM02175	0.03	1	10	50	32	28	CW	PA Module	JF06F007	18.0×8.7×2.2
NDNM020009	0.08	1	200	60	13	40	CW	PA Module	Plat Carrier	100.0×65.0×25.0



Wide-band GaN Power Transistors & Modules (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM020010	0.1	0.4	6	65	36	28	CW	PA Module	Plat Carrier	25.0×24.0×4.5
NDNM020011	0.1	0.4	50	70	13	28	CW	PA Module	Plat Carrier	43.0×42.0×12.0
NDNM011745	0.1	0.5	200	66	14	36	CW	Pre-Matched	JY04F586	5.8×29.0×3.0
NDNM020071	0.1	0.52	350 200	50	37 39.5	36 28	1.2ms, 30% CW	PA Module	Metal Package	149.0×64.0×20.0
NDNM01506	0.1	0.8	20	55	14	28	CW	Pre-Matched	JY04F635	6.35×18.9×2.67
NDNM01507	0.1	0.8	150	65	12	28	CW	Pre-Matched	JY04F128	41.2×10.2×2.9
NDNM011746	0.225	0.525	300	70	17	48	CW	Pre-Matched	JY04F128	41.2×10.2×2.9
NDNM011884	0.3	0.8	40	47	36	28	CW	Inter-Matched	JF06F031	22.4×25.5×5.0
NDNM01170	0.3	0.8	100	45	10	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM020041	0.3	2	1.5	25	23	28	CW	PA Module	JF06F007	18.0×8.7×2.2
NDNM020042	0.35	2	5	31	30	28	CW	PA Module	JF04F002	21.0×13.0×5.3
NDNM020012	0.35	2	10	36	36	28	CW	PA Module	JF04F002	21.0×13.0×5.3
NDNM020043	0.35	2	25	40	32	28	CW	PA Module	JF06F031	22.4×25.5×5.0
NDNM02174	0.35	2	25	40	32	28	CW	PA Module	JF06F016	27.4×30.8×5.0
NDNM020031	0.35	2	50	50	11	28	CW	PA Module	Plat Carrier	40.0×55.0×12.0
NDNM020044	0.35	2	120	50	13	48	CW	PA Module	Module	56.6×36.0×16.0
NDNM01232	0.35	2	100	50	9	28	CW	PA Module	Plat Carrier	74.4×42.0×16.0
NDNM011885	0.38	1.35	150	48	12	28	CW	Pre-Matched	JY02F008	34.04×9.78×3.15
NDNM020014	0.38	1.45	150	50	12	28	CW	PA Module	Plat Carrier	81.0×50.0×12.0
NDNM011747	0.5	1.25	150	52	12	28	CW	Pre-Matched	JY02F018	24.5×9.78×3.15
NDNM020045	0.5	2.5	20	40	32	28	CW	Inter-Matched	JF06F031	22.4×25.5×5.0
NDNM011886	0.5	2.5	40	50	23	28	CW	Pre-Matched	JY02F360	75.1×29.4×10.0
NDNM020015	0.5	2.5	40	50	13	28	CW	PA Module	Plat Carrier	61.2×27.5×15.0
NDNM011887	0.5	2.5	120	50	12	28	CW	Pre-Matched	JY04F586	5.8×29.0×3.0
NDNM020016	0.5	2.5	200 120	50	13	48	100us, 10% CW	PA Module	Plat Carrier	64.6×34.8×15.0
NDNM011748	0.5	3	25	40	11	28	CW	Inter-Matched	JF04F007	21.7×24.2×4.7
NDNM01511	0.5	3	80	38	10	28	CW	Inter-Matched	JF06F038	34.8×31.5×5.0
NDNM01505	0.5	6	40	30	6	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011751	0.7	6	25	40	9	28	CW	Inter-Matched	JF04F007	21.7×24.2×4.7
NDNM020001	0.8	2	10	50	26	28	CW	PA Module	JF04F002	21.0×13.0×5.3
NDNM011752	0.8	2	20	45	13.5	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011795	0.8	2	40	45	11	32	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM01003	0.8	2	50	50	10	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM020052	0.8	2	80	58	11	28	CW	PA Module	Module	61.8×33.4×15.0
NDNM01101	0.8	2	100	45	10	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0

Wide-band GaN Power Transistors & Modules (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM011754	0.8	2	150	50	13	32	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011796	0.8	2	200	45	12	48	100us,10%	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011755	0.8	2	400	45	13	48	100us,10%	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM020017	0.8	2.5	20	45	13	28	CW	PA Module	C164-2	24.0×17.4×5.0
NDNM020018	0.8	2.7	10	24	30	28	CW	Inter-Matched	JF06F031	22.4×25.5×5.0
NDNM011756	0.8	2.7	150	49	11	28	CW	Inter-Matched	JF06F041	34.8×27.2×6.0
NDNM011797	0.8	4.2	50	40	10	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011798	0.8	4.2	80	45	11	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011757	0.8	4.2	80	40	9	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011758	0.8	4.2	150	35	9	48	100us,10%	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM020019	0.9	2	400	60	13	48	100us,10%	PA Module	Plat Carrier	104.0×23.0×22.5
NDNM011759	1	2	200	50	12	48	200us,10%	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011760	1	2.5	100	45	10	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM020062	1.1	1.7	10	35	36	28	CW	PA Module	C164-2	24.0×17.4×5.0
NDNM020020	1.3	1.9	12	50	28	28	CW	Inter-Matched	JF06F043	8.7×11.1×2.2
NDNM020021	1.3	1.9	50	55	24	28	CW	Inter-Matched	JF06F031	22.4×25.5×5.0
NDNM01177	2	4	50	45	10	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011822	2	4	80	45	7	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011823	2	4	80	45	10	32	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM01179	2	4	100	37	9	32	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011888	2	4	100	50	11	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011761	2	4	200	45	10	32	200us,10%	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM02172	2	6	20	30	16	28	CW	PA Module	JF06F007	18.0×8.7×2.2
NDNM02173	2	6	30	30	18	28	CW	PA Module	JF06F007	18.0×8.7×2.2
NDNM011824	2	6	200	35	10	48	100us,10%	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011825	2	6.2	40	35	6	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011762	2	6.2	60	35	8	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM01180	2	6.2	80	35	7	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM030003	2	6.2	80	40	7	28	CW	PA Carrier	Plat Carrier	22.6×24.0×2.0
NDNM011826	2	6.2	120	35	9	40	3ms,30%	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM020022	2	6.5	1.5	35	17	28	CW	PA Module	JF06F007	18.0×8.7×2.2
NDNM020026	2	8	2	20	21	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011891	2	8	40	35	13	28	CW	Inter-Matched	JF06F031	22.4×25.5×5.0
NDNM011764	2	8	50	30	6	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011771	2	8	60	35	7	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0

Wide-band GaN Power Transistors & Modules (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Type	Package	Dimensions (mm)
NDNM011763	2.7	6.2	25	30	8	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011831	2.7	6.2	80	33	17	28	CW	PA Module	JF06F038	34.8×31.5×5.0
NDNM011889	2.7	6.2	80	35	17	28	PL	PA Carrier	Plat Carrier	30.2×18.0×1.5
NDNM020025	2.7	6.2	100	35	18	28		PA Module	Plat Carrier	25.4×17.6×2.0
NDNM030004	2.7	6.2	120	40	8	28	3ms,50%	PA Carrier	Plat Carrier	22.6×17.6×2.0
NDNM011890	2.7	6.2	120	40	8	28	PL	PA Carrier	Plat Carrier	17.6×17.6×2.0
NDNM011765	4	6.8	60	35	7	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011766	4	8	25	30	8	48	100us,10%	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011767	4	8	80	35	7	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011768	4	8	150	35	9	48	100us,10%	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011769	4	8.5	80	35	7	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011892	4.4	6.5	150	50	9	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM020027	4.4	6.6	10	37	25	28	CW	PA Module	JF04F002	21.0×13.0×5.3
NDNM011836	4.4	6.6	18	40	8	28	CW	Inter-Matched	C164-2	24.0×17.4×5.0
NDNM011770	4.4	6.6	80	45	9	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011772	4.4	6.6	120	45	10	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM011794	4.4	6.7	100	45	9	28	CW	Inter-Matched	JF06F016	27.4×30.8×5.0
NDNM020061	8	12	30	20	17	28	CW	PA Module	JY06F011	25.3×9.7×2.15
NDNM020028	8	12	40	20	17	28	CW	PA Module	JF06F035	25.4×9.78×4.5

GaAs Power Transistors

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _p (dB)	V _D (V)	Mode	Package	Dimensions (mm)
NDAM010001	1.7	2.0	3	50	15	9.5	PL	C129-10	21.0×12.9×4.7
NDAM010002	1.7	2.0	15	50	14	9.5	PL	C164-1	24.0×17.4×4.4
NDAM010003	1.9	2.0	30	45	13	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010004	1.9	2.2	3	50	15	9.5	PL	C129-10	21.0×12.9×4.7
NDAM010005	1.9	2.2	15	50	14	9.5	PL	C164-1	24.0×17.4×4.4
NDAM010006	2	6.0	1	20	22	8	CW	JF06F007	18.0×8.7×2.2
NDAM010007	2.025	2.3	30	43	13	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010008	2.1	2.3	3	45	15	9.5	PL	C129-10	21.0×12.9×4.7
NDAM010009	2.1	2.3	15	50	14	9.5	PL	C164-1	24.0×17.4×4.4
NDAM01001	2.2	2.3	25	43	13	10	PL	C164-1	24.0×17.4×4.4
NDAM010010	2.3	2.5	30	41	12	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010011	2.48	2.5	35	45	12	10	CW	C164-2	24.0×17.4×5.0
NDAM01002	2.5	2.7	25	42	11	10	PL	C164-1	24.0×17.4×4.4
NDAM010012	2.7	3.5	30	40	12	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010013	3.3	3.6	4	45	12	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010014	3.3	3.6	30	41	10.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010015	3.4	3.9	4	38	12	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010016	3.4	3.9	18	37	10.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010017	3.7	4.2	4	45	11	10	CW	C129-10	21.0×12.9×4.7
NDAM010018	3.7	4.2	25	40	10	10	CW	C164-1	24.0×17.4×4.4
NDAM010019	4	4.3	4	48	12	10	CW	C129-10	21.0×12.9×4.7
NDAM010020	4	4.3	25	45	11	10	CW	C164-1	24.0×17.4×4.4
NDAM010021	4.4	5.0	4	41	11	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010022	4.4	5.0	8	41	10	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010023	4.4	5.0	10	40	10	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010024	4.4	5.0	12	39	10.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010025	4.4	5.0	16	39	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010026	4.4	5.0	18	36	9.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01003	4.4	5.0	25	42	10	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010027	4.4	5.0	30	40	10	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010028	4.4	5.0	45	39	9.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01004	4.4	5.0	50	41	10	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01006	5	5.3	25	38	10	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01007	5	5.3	50	42	10	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010029	5.3	5.9	4	41	10.5	10	CW / PL	C129-10	21.0×12.9×4.7

GaAs Power Transistors (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Package	Dimensions (mm)
NDAM01008	5.3	5.9	8	40	10	10	CW / PL	C129-10	21.3×13.1×5.2
NDAM01009	5.3	5.9	12	40	10	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01010	5.3	5.9	16	40	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010030	5.3	5.9	18	40	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01011	5.3	5.9	25	40	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010031	5.3	5.9	35	38	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01012	5.3	5.9	45	38	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010032	5.3	5.9	63	38	8	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010033	5.9	6.4	4	37	10	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010034	5.9	6.4	6	37	10	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010035	5.9	6.4	8	37	10	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010036	5.9	6.4	10	37	10	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010037	5.9	6.4	12	37	10	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010038	5.9	6.4	16	37	10	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010039	5.9	6.4	18	37	10	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01014	5.9	6.4	25	36	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010040	5.9	6.4	35	36	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01015	5.9	6.4	50	36	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010041	6	6.6	8	38	9.5	10	CW	C129-10	21.0×12.9×4.7
NDAM010042	6	6.6	14	38	9	10	CW	C164-1	24.0×17.4×4.4
NDAM010043	6.4	7.2	4	37	9.5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010044	6.4	7.2	6	37	9.5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010045	6.4	7.2	8	36	9.5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010046	6.4	7.2	10	36	9.5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010047	6.4	7.2	12	36	9.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010048	6.4	7.2	16	36	9.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010049	6.4	7.2	18	35	9.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01016	6.4	7.2	25	35	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010050	6.4	7.2	35	35	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01017	6.4	7.2	50	33	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010051	6.6	7.2	8	40	9	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010052	6.6	7.2	16	40	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010053	6.7	7.0	50	38	9	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010054	7.7	8.5	2	35	7.5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010055	7.7	8.5	4	35	8.5	10	CW / PL	C129-10	21.0×12.9×4.7

GaAs Power Transistors (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Package	Dimensions (mm)
NDAM010056	7.7	8.5	6	35	7.5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM01018	7.7	8.5	8	34	8.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010057	7.7	8.5	10	37	8.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010058	7.7	8.5	12	33	7.5	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010059	7.7	8.5	12	35	8.5	10	CW	C164-1	24.0×17.4×4.4
NDAM010060	7.7	8.5	16	37	8	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01019	7.7	8.5	18	35	8	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010089	7.7	8.5	25				CW / PL	C164-1	24.0×17.4×4.4
NDAM010090	7.7	8.5	30				CW / PL	C164-1	24.0×17.4×4.4
NDAM010061	8.2	8.7	6	38	8	10	CW	C129-10	21.0×12.9×4.7
NDAM010062	8.2	8.7	12	35	7.5	10	CW	C164-1	24.0×17.4×4.4
NDAM010063	8.5	9.6	2	30	7	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010064	8.5	9.6	4	30	7	10	CW / PL	C97-5	16.5×9.7×3.0
NDAM01020	8.5	9.6	8	30	7.5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010065	8.5	9.6	12	30	7	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010066	8.5	9.6	16	30	7	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010067	8.5	9.6	25	30	7	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01021	8.5	9.6	30	30	7	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010068	9	10.0	4	30	7	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM01025	9	10.0	8	30	7	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM01046	9	10.0	12	30	6	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM01047	9	10.0	16	30	7	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010069	9	10.0	20	30	6	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01028	9	10.0	25	30	7	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010070	9	10.0	30	30	6	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM01049	9.5	10.5	4	30	7	10	CW / PL	C97-5	16.5×9.7×3.0
NDAM01050	9.5	10.5	8	30	7	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010071	9.5	10.5	12.5	25	7	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010072	9.5	10.5	25	30	7	10	CW / PL	C164-1	24.0×17.4×4.4
NDAM010075	10	10.4	16	25	6	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010073	10	10.4	2	30	7	10	CW/PL	C97-5	16.5×9.7×3.0
NDAM010074	10	10.4	8	25	6	10	CW/PL	C97-5	16.5×9.7×3.0
NDAM010076	10.7	11.7	3	35	6	10	CW / PL	C97-5	16.5×9.7×3.0
NDAM010077	11	11.4	4	30	6	10	CW/PL	C97-5	16.5×9.7×3.0
NDAM010078	11	11.4	8	25	5	10	CW/PL	C97-5	16.5×9.7×3.0

GaAs Power Transistors (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	G _P (dB)	V _D (V)	Mode	Package	Dimensions (mm)
NDAM010079	13.75	14.5	4	23	5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010080	13.75	14.5	8	27	5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010081	13.75	14.5	9	30	5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010082	13.75	14.5	12	23	5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010083	14	14.5	4	23	5.5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010084	14	14.5	8	27	5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010085	14	14.5	9	23	5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010086	14	14.5	12	23	5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010087	14.5	15.3	4	26	5.5	10	CW / PL	C129-10	21.0×12.9×4.7
NDAM010088	14.5	15.3	8	25	5	10	CW / PL	C129-10	21.0×12.9×4.7

GaAs Power Transistor Replacement List

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	SUMITOMO	TOSHIBA	MITSUBISHI
NDAM010003	1.9	2	30	45			MGFL45V1920A
NDAM010007	2.025	2.285	30	43	FLM2023L-30F		
NDAM010010	2.3	2.5	30	41			MGFS45V2325A
NDAM01002	2.5	2.7	25	42	FLM2527L-20F		
NDAM010012	2.7	3.5	30	40			MGFS45V2735
NDAM010015	3.4	3.9	4	38	FLM3439-4F		
NDAM010016	3.4	3.9	18	37	FLM3439-18F		
NDAM010021	4.4	5	4	41	FLM4450-4F	TIM4450-4UL	MGFC36V4450A
NDAM010022	4.4	5	8	41	FLM4450-8F	TIM4450-8UL	MGFC39V4450A
NDAM010023	4.4	5	10	40			MGFC40V4450
NDAM010024	4.4	5	12	39	FLM4450-12F	TIM4450-12UL	
NDAM010025	4.4	5	16	39		TIM4450-16UL	MGFC42V4450
NDAM010026	4.4	5	18	36	FLM4450-18F		
NDAM01003	4.4	5	25	42	FLM4450-25F	TIM4450-25UL	MGFC44V4450
NDAM010027	4.4	5	30	40		TIM4450-30SL	MGFC45V4450A
NDAM010028	4.4	5	45	39	FLM4450-45F	TIM4450-45SL	
NDAM01006	5	5.3	25	38	FLM5053-25F		
NDAM010029	5.3	5.9	4	41	FLM5359-4F	TIM5359-4UL	
NDAM01008	5.3	5.9	8	40	FLM5359-8F	TIM5359-8UL	
NDAM01009	5.3	5.9	12	40	FLM5359-12F		

GaAs Power Transistor Replacement List (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	SUMITOMO	TOSHIBA	MITSUBISHI
NDAM01010	5.3	5.9	16	40		TIM5359-16UL	
NDAM010030	5.3	5.9	18	40	FLM5359-18F		
NDAM01011	5.3	5.9	25	40	FLM5359-25F		
NDAM010031	5.3	5.9	35	38	FLM5359-35F	TIM5359-35SL	
NDAM01012	5.3	5.9	45	38	FLM5359-45F	TIM5359-45SL	
NDAM010032	5.3	5.9	63	38	FLM5359-60F	TIM5359-60SL	
NDAM010033	5.9	6.4	4	37	FLM5964-4F	TIM5964-4UL	MGFC36V5964A
NDAM010034	5.9	6.4	6	37	FLM5964-6F	TIM5964-6UL	MGFC38V5964
NDAM010035	5.9	6.4	8	37	FLM5964-8F	TIM5964-8UL	MGFC39V5964A
NDAM010036	5.9	6.4	10	37	FLM5964-10F		MGFC40V5964
NDAM010037	5.9	6.4	12	37	FLM5964-12F	TIM5964-12UL	MGFC41V5964
NDAM010038	5.9	6.4	16	37	FLM5964-16F	TIM5964-16UL	MGFC42V5964
NDAM010039	5.9	6.4	18	37	FLM5964-18F		
NDAM01014	5.9	6.4	25	36	FLM5964-25F	TIM5964-25UL	MGFC44V5964
NDAM010040	5.9	6.4	35	36		TIM5964-30UL	
NDAM01015	5.9	6.4	50	36	FLM5964-45F	TIM5964-45UL	MGFC47V5864
NDAM010043	6.4	7.2	4	37	FLM6472-4F	TIM6472-4UL	MGFC36V6472A
NDAM010044	6.4	7.2	6	37	FLM6472-6F	TIM6472-6UL	MGFC38V6472
NDAM010045	6.4	7.2	8	36	FLM6472-8F	TIM6472-8UL	MGFC39V6472A
NDAM01015	5.9	6.4	50	36	FLM5964-45F	TIM5964-45UL	MGFC47V5864
NDAM010046	6.4	7.2	10	36	ELM6472-10F		MGFC40V6472
NDAM010047	6.4	7.2	12	36	FLM6472-12F	TIM6472-12UL	MGFC41V6472
NDAM010048	6.4	7.2	16	36	FLM6472-16F	TIM6472-16UL	MGFC42V6472
NDAM010049	6.4	7.2	18	35	FLM6472-18F		
NDAM01016	6.4	7.2	25	35	FLM6472-25F	TIM6472-25UL	MGFC44V6472
NDAM010050	6.4	7.2	35	35		TIM6472-30SL	MGFC45V6472A
NDAM01017	6.4	7.2	50	33		TIM6472-45SL	
NDAM010055	7.7	8.5	4	35	FLM7785-4F	TIM7785-4UL	MGFC36V7785A
NDAM010056	7.7	8.5	6	35	FLM7785-6F	TIM7785-6UL	
NDAM01018	7.7	8.5	8	34	FLM7785-8F	TIM7785-8UL	MGFC39V7785A
NDAM010057	7.7	8.5	10	37	FLM7785-10F		MGFC40V7785
NDAM010058	7.7	8.5	12	33	FLM7785-12F	TIM7785-12UL	
NDAM010060	7.7	8.5	16	37	FLM7785-16F	TIM7785-16UL	MGFC42V7785A
NDAM01019	7.7	8.5	18	35	FLM7785-18F		
NDAM010063	8.5	9.6	2	30		TIM8596-2	

GaAs Power Transistor Replacement List (Continued)

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	P _{SAT} (W)	PAE (%)	SUMITOMO	TOSHIBA	MITSUBISHI
NDAM010064	8.5	9.6	4	30	FLM8596-4F	TIM8596-4	
NDAM01020	8.5	9.6	8	30	FLM8596-8F	TIM8596-8	
NDAM010065	8.5	9.6	12	30	FLM8596-12F		
NDAM010066	8.5	9.6	16	30	FLM8596-15F	TIM8596-15	
NDAM01049	9.5	10.5	4	30	FLM0910-4F	TIM0910-4	
NDAM01050	9.5	10.5	8	30	FLM0910-8F	TIM0910-8	
NDAM010071	9.5	10.5	12.5	25	FLM0910-12F		
NDAM010072	9.5	10.5	25	30	FLM0910-25F		
NDAM010079	13.75	14.5	4	23		TIM1414-4-252	
NDAM010080	13.75	14.5	8	27	FLM1314-8F	TIM1414-8-252	
NDAM010081	13.75	14.5	9	30	ELM1314-9F	TIM1314-9L	
NDAM010082	13.75	14.5	12	23	FLM1314-12F		
NDAM010083	14	14.5	4	23	FLM1414-4F	TIM1414-4LA	MGFK36V4045
NDAM010084	14	14.5	8	27	FLM1414-8F	TIM1414-8L	MGFK39V4045
NDAM010085	14	14.5	9	23		TIM1414-9L	
NDAM010086	14	14.5	12	23	FLM1414-12F		
NDAM010087	14.5	15.3	4	26	FLM1415-4F		
NDAM010088	14.5	15.3	8	25	FLM1415-8F		

Silicon Power Transistor Replacement List

Part Number	Manufacturer	Counterpart	Description
ND3DA507	MACOM	PH1214-25M	RF Bipolar Transistor, 1.2-1.4GHz, 28V, 25W
NDWS121440	MACOM	PH1214-40M	RF Bipolar Transistor, 1.2-1.4GHz, 40V, 40W
NDFB121447	MACOM	PH1214-55EL	RF Bipolar Transistor, 1.2-1.4GHz, 28V, 55W
NDWS121450	MACOM	PH1214-110M	RF Bipolar Transistor, 1.2-1.4GHz, 40V, 110W
NDWS121453	MACOM	PH1214-220M	RF Bipolar Transistor, 1.2-1.4GHz, 40V, 220W
NDWS121454	MACOM	PH1214-300M	RF Bipolar Transistor, 1.2-1.4GHz, 40V, 300W
NDWS273180	MACOM	PH9038	2.7-3.1 GHz
NDWS313465		MAPH-009393	
NDWS9001H	MACOM	PH3134-10M	RF Bipolar Transistor, 3.1-3.4GHz, 10W
NDWS9002H	MACOM	PH3135-65M	RF Bipolar Transistor, 3.1-3.5GHz, 65W
NDFB9284H	MACOM	PH3135-130M	RF Bipolar Transistor, 3.1-3.5GHz, 130W
NDWC2070	Ampleon	BLA6H0912-500	LDMOS Power Transistor, 960-1215 MHz, 50V, 450W, 50%
NDWC2071	Ampleon	BLF571	LDMOS Power Transistor, 225 MHz, 50V, 20W, 70%
NDWC2072	Ampleon	BLF573	LDMOS Power Transistor, 225 MHz, 50V, 300W, 70%
NDWC2054	NXP	MRFE6VP5600HR6	RF MOSFET, 1.8-600 MHz, 600W, 50V
NDWC2074	AMPLEON	BLF871	LDMOS, DC-1 GHz, 100W, 40V
NDWC2075	NXP	MRF281SR1	RF MOSFET, 1.0-2.5 GHz, 4W, 26V, 30%
NDWC2076	NXP	MRF284LR1	RF MOSFET, 1.0-2.6 GHz, 30W CW, 26V, 45%
NDWC2077	INFINEON	PTFA092201E	RF LDMOS, 920-960 MHz, 55W, 30V, 30%
NDWC2078	NXP	MRF284LSR1	RF MOSFET, 1.0-2.6 GHz, 30W, 26V, 30%
NDWC2055	NXP	BLF404	UHF POWER TRANSISTOR, 500 MHz, 4W, 12.5V, 50%
NDWC2079	MACOM	MRF134	RF MOSFET, DC-400 MHz, 5W, 28V, 55%
NDWC2080	ST	SD3933	RF MOSFET, DC-200 MHz, 350W, 100V, 60%
NDWC2081	Microsemi	VRF157FL	RF MOSFET, 2-100MHz, 600W, 50V, 45%
NDWS0002	MACOM	MRF10005	RF Bipolar Transistor, 960-1215 MHz, 5W, 28V, 45%
NDWS0003	MACOM	MRF426	RF Silicon Power Transistor, 30 MHz, 25W, 28V, 35%
NDWS0004	MACOM	MRF429	RF Silicon Power Transistor, 30 MHz, 150W, 50V, 45%
NDWS0005	Microsemi	MS2209	RF Transistor, 960-1215 MHz, 100W, 50V, 38%
NDWS0006	APT	MS2272	RF Transistor, 960-1215 MHz, 350W, 50V, 38%

Power Dividers

Part Number	Type	Start Freq. (GHz)	Stop Freq. (GHz)	IL (dB)	ISO (dB)	VSWR	Dimensions (mm)
NDAC190074	2-way	0.2	0.5	1.3	13	1.3	1.4×2.1×0.1
NDAC190069	2-way	0.3	2	1.5	15	1.3	2.45×1.6×0.1
NDAC190001	2-way	0.5	1.5	1	20	1.4	1.7×1.4×0.1
NDAC190005	2-way	2	3	0.5	20	1.3	2.1×2.4×0.1
NDAC190006	2-way	2	6	0.8	20	1.4	2.65×2.6×0.1
NDAC190007	3-way	2	6	1	18	1.5	2.0×1.5×0.1
NDAC190008	4-way	2	6	1.5	20	1.5	4.2×4.9×0.1
NDAC190009	2-way	2	12	0.8	15	1.6	2.6×2.6×0.1
NDAC190073	3-way	2	12	1.6	18	1.5	2.6×2.6×0.1
NDAC190012	2-way	2	18	1	16	1.4	1.8×1.8×0.1
NDAC190087	2-way	2	18	2.2	15	1.7	2×1.3×0.1
NDAC190014	3-way	2	18	1.8	15	1.5	3.55×3×0.1
NDAC190068	3-way	2	18	2.4	20	1.4	3×3×0.1
NDAC190015	3-way	2.5	12	1	1.5	20	3.0×2.7×0.1
NDAC190016	2-way	3	5	0.5	20	1.3	1.8×2.1×0.1
NDAC190088	2-way	4	6	0.6	20	1.2	1.45×0.9×0.1
NDAC190076	2-way	5	6	0.6	20	1.4	1.45×0.9×0.1
NDAC190019	2-way	5	6	0.8	20	1.4	1.4×0.9×0.1
NDAC190020	2-way	5	7	0.5	20	1.3	1.6×1.76×0.1
NDAC190084	2-way	5	13	0.8	20	1.3	1.4×0.9×0.1
NDAC190021	2-way	5	14	0.8	18	1.5	1.8×2.2×0.1
NDAC190022	4-way	5	14	1.6	20	1.5	4×3.2×0.1
NDAC190023	2-way	5	18	0.8	18	1.5	1.0×0.8×0.1
NDAC190081	4-way	5	18	1.1	15	1.4	3.5×1.5×0.1
NDAC190070	2-way	5	20	1	18	1.4	1.0×0.8×0.1
NDAC190025	2-way	6	8	0.5	20	1.3	1.6×1.6×0.1
NDAC190085	2-way	6	10	0.6	13	1.6	1.2×1.6×0.1
NDAC190026	2-way	6	18	0.6	20	1.2	1.4×0.9×0.1
NDAC190027	2-way	6	18	0.7	20	1.5	2×1.8×0.1
NDAC190029	2-way	7	11	0.5	18	1.4	1.6×1.6×0.1
NDAC190030	2-way	8	12	0.6	20	1.4	1.6×1.2×0.1
NDAC190078	3-way	8	12	0.6	18	1.5	1.8×2×0.1
NDAC190031	3-way	8	12	0.9	17	1.5	1.45×1.25×0.1
NDAC190032	3-way	8	12	1	20	1.5	2×1.8×0.1
NDAC190033	4-way	8	12	1.5	22	1.5	2.3×2.6×0.1

Power Dividers (Continued)

Part Number	Type	Start Freq. (GHz)	Stop Freq. (GHz)	IL (dB)	ISO (dB)	VSWR	Dimensions (mm)
NDAC190035	2-way	10	14	0.4	20	1.4	1.36×1.6×0.1
NDAC190037	2-way	12	16	0.6	20	1.3	1.26×1.6×0.1
NDAC190071	3-way	12	18	1	20	1.5	1.5×1.2×0.1
NDAC190040	2-way	12	26	0.8	18	1.4	1.8×2×0.1
NDAC190083	2-way	14	18	0.6	18	1.5	1.2×1.2×0.1
NDAC190072	2-way	14	18	0.7	20	1.4	1.1×0.85×0.1
NDAC190041	3-way	14	18	0.8	18	1.4	1.9×1.5×0.1
NDAC190043	2-way	16	22	0.6	20	1.4	1.2×1.2×0.1
NDAC190080	4-way	16	31	1.3	24	1.4	2.6×2.6×0.1
NDAC190082	2-way	18	24	0.6	18	1.5	1.2×1.2×0.1
NDAC190044	4-way	18	25	1.6	20	1.5	2×2×0.1
NDAC190045	3-way	18	26	0.8	20	1.5	1.8×1.5×0.1
NDAC190047	2-way	18	40	0.5	22	1.4	1.25×0.9×0.1
NDAC190049	2-way	18	40	0.8	20	1.4	1.0×0.8×0.08
NDAC190048	3-way	18	40	0.8	20	1.5	2×1.5×0.1
NDAC190053	2-way	20	28	0.8	20	1.5	1.5×1.2×0.1
NDAC190077	2-way	20	28	0.8	18	1.5	1.2×1.2×0.1
NDAC190054	2-way	23	29	0.8	20	1.5	1.2×1.2×0.1
NDAC190055	4-way	23	30	1.5	20	1.5	2×2×0.1
NDAC190056	3-way	24	30	1	18	1.5	1.5×1.5×0.1
NDAC190058	2-way	25	45	1	18	1.5	1.8×1.2×0.1
NDAC190060	2-way	27	33	0.8	20	1.5	1.2×1.2×0.1
NDAC190075	2-way	29	35	1	20	1.5	1.2×1.2×0.1
NDAC190086	2-way	29	36	0.8	18	1.5	1.2×1.2×0.1
NDAC190061	2-way	29	36	1	20	1.5	1.2×1.2×0.1
NDAC190062	3-way	31	43	1.2	18	1.5	1.6×1.5×0.1
NDAC190064	2-way	32	38	0.4	22	1.3	1.0×1.2×0.1
NDAC190065	2-way	34	41	0.8	20	1.5	1×1.2×0.1
NDAC190066	2-way	37	43	0.8	20	1.5	1×1.2×0.1
NDAC190067	2-way	40	50	0.6	20	1.4	0.84×1.2×0.1
NDAC190002	2-way	1	2	0.8	20	1.5	1.25×1.0×0.1
NDAC190003	4-way	1	2	1.2	20	1.5	3.0×2.05×0.1
NDAC190079	2-way	DC	40	8	7	1.3	0.6×0.65×0.1

Equalizers

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	EQ Value (dB)	IL (dB)	VSWR	Dimensions (mm)
NDAC240004	0.5	6	1.2	2	0.6	0.74×1.06×0.1
NDAC240005	0.5	6	1.2	3	0.8	0.74×1.06×0.1
NDAC240006	0.5	6	1.2	4	0.6	0.74×1.06×0.1
NDAC240008	0.5	6	1.2	6	1	0.74×1.06×0.1
NDAC240010	2	6	1.2	2	0.6	0.74×1.06×0.1
NDAC240011	2	6	1.2	3	0.6	0.74×1.06×0.1
NDAC240012	2	6	1.2	4	0.7	0.74×1.06×0.1
NDAC240013	2	6	1.2	5	0.9	0.74×1.06×0.1
NDAC240014	2	6	1.2	6	1	0.74×1.06×0.1
NDAC240037	2	18	1.2	1.5	1	0.73×0.58×0.1
NDAC240038	2	18	1.2	2.5	0.8	0.73×0.58×0.1
NDAC240017	5	7	1.2	1.2	4.5	1.1×0.76×0.1
NDAC240035	5	7	1.3	1/0.5	4.5	0.75×1.75×0.1
NDAC240019	6	18	1.2	2	0.7	0.64×0.92×0.1
NDAC240020	6	18	1.2	3	0.7	0.64×0.92×0.1
NDAC240022	6	18	1.2	5	1.5	0.64×0.92×0.1
NDAC240024	6	18	1.2	7	1.8	0.64×0.92×0.1
NDAC240026	8	12	1.6	4	1.2	1.18×1.25×0.1
NDAC240031	26	38	1.5	5	1.5	0.85×1.05×0.1
NDAC240033	29	31	2	2	2.1	0.8×0.9×0.1
NDAC240036	32	40	1.3	3.5	0.8	0.7×0.9×0.1

Large Bridges

Part Number	Start Freq. (GHz)	Stop Freq. (GHz)	IL (dB)	Limit Power (dBm)	Integrated Load	Input VSWR	Output VSWR	Dimensions (mm)
NDAC180035	1.1	1.6	1.4	30	Y	1.3	1.3	5.0×1.6×0.1
NDAC180001	1.15	1.45	1	40	Y	1.5	1.5	5.0×1.6×0.1
NDAC180003	1.2	1.4	1	40	Y	1.2	1.3	5.0×1.6×0.1
NDAC180005	2	6	0.5	40	N	1.8	1.8	7.0×1.4×0.4
NDAC180010	5	7	0.5	50	Y	1.3	1.3	3.9×1.3×0.3
NDAC180036	6	12	0.35	47	Y	1.3	1.5	1.25×3.75×0.3
NDAC180032	6	18	0.45	47	N	1.3	1.8	1.25×3.75×0.3
NDAC180012	6	18	0.6	40	N	1.8	2.2	4.7×1.5×0.4
NDAC180013	6	18	0.7	40	N	1.5	1.5	4.7×1.8×0.4
NDAC180016	8	12	0.5	40	N	1.2	1.8	4.7×1.5×0.4
NDAC180027	33	37	0.6	50	Y	1.3	1.3	2.7×0.77×0.3



Silicon Wire Bondable Capacitors

Part Number	Capacitance	V _{BR} (V)	Dimensions (μm)	Bond Pad Size (μm)
NDGD050001	8.2pF	50	250×250×150	175×175
NDGD050002	10pF	50	250×250×150	175×175
NDGD050003	22pF	50	300×300×120	225×225
NDGD050004	47pF	50	460×460×150	380×380
NDGD050005	68pF	50	460×460×150	380×380
NDGD050006	100pF	50	460×460×150	380×380
NDGD050007	8.2pF	100	460×460×150	380×380
NDGD050008	10pF	100	300×300×150	225×225
NDGD050009	22pF	100	460×460×150	380×380
NDGD050010	33pF	100	460×460×150	380×380
NDGD050011	47pF	100	580×580×120	520×520
NDGD050012	100pF	100	750×750×120	680×680
NDGD050013	0.5pF	200	250×250×120	175×175
NDGD050014	0.8pF	200	250×250×120	175×175
NDGD050015	1pF	200	250×250×120	175×175
NDGD050016	5pF	200	300×300×120	225×225
NDGD050017	10pF	200	460×460×120	380×380
NDGD050018	22pF	200	580×580×120	520×520
NDGD050019	47pF	200	750×750×120	680×680
NDGD050020	10nF	11	380×380×120	280×280
NDGD050021	10nF	30	500×500×120	400×400
NDGD050022	100nF	30	1000×1000×150	800×800
NDGD050023	1μF	30	3000×3000×250	2600×2600
NDGD050024	470pF	50	250×250×120	180×180
NDGD050025	1nF	50	300×300×120	220×220
NDGD050026	4.7nF	50	500×500×120	400×400
NDGD050027	10nF	50	750×750×120	650×650
NDGD050028	22nF	50	1250×1000×250	1000×800
NDGD050029	100nF	50	2000×2000×250	1600×1600
NDGD050030	100pF	100	250×250×120	180×180
NDGD050031	470pF	100	300×300×120	220×220
NDGD050032	1nF	100	380×380×120	280×280
NDGD050033	4.7nF	100	635×635×120	540×540
NDGD050034	10nF	100	800×800×120	700×700
NDGD050035	100nF	100	2500×2500×250	2100×2100
NDGD050001	8.2pF	50	250×250×150	175×175

Silicon Wire Bondable Capacitors (Continued)

Part Number	Capacitance	V _{BR} (V)	Dimensions (μm)	Bond Pad Size (μm)
NDGD050036	10pF	200	250×250×120	180×180
NDGD050037	22pF	200	250×250×120	180×180
NDGD050038	47pF	200	250×250×120	180×180
NDGD050039	100pF	200	250×250×120	180×180
NDGD050040	470pF	200	380×380×120	280×280
NDGD050041	1nF	200	500×500×120	400×400
NDGD050042	10nF	200	1500×1500×150	1400×1400
NDGD050043	47nF	200	3500×3500×250	3000×3000
NDGD050044	10pF	350	380×380×120	240×240
NDGD050045	100pF	350	380×380×120	240×240
NDGD050046	22pF	350	500×500×120	300×300
NDGD050047	47pF	350	500×500×120	300×300
NDGD050048	100pF	350	500×500×120	300×300
NDGD050049	100pF	350	800×800×120	600×600
NDGD050050	470pF	350	800×800×120	600×600
NDGD050051	1nF	350	800×800×120	600×600
NDGD050052	1nF	350	1000×1000×150	800×800
NDGD050053	2.2nF	350	2000×1000×250	1750×750
NDGD050054	47pF	500	800×800×120	400×400
NDGD050055	100pF	500	1050×1050×150	600×600
NDGD050056	470pF	500	1500×1500×250	1100×1100
NDGD050057	1nF	500	2000×2000×250	1600×1600

SMD Capacitors

Part Number	Capacitance (nF)	V _{BR} (V)	Dimensions (μm)	Electrode Size (μm)
NDGD060001	47	11	800×600×250	150×400
NDGD060002	100	11	1200×700×250	300×500
NDGD060003	22	30	800×600×250	150×400
NDGD060004	47	30	1200×700×250	300×500
NDGD060005	100	30	1800×1100×250	400×900
NDGD060006	10	50	800×600×250	150×400
NDGD060007	22	50	1200×700×250	300×500
NDGD060008	47	50	1800×1100×250	400×900

MIM Capacitors

Part Number	Capacitance (pF)	V _{BR} (V)	Dimensions (μm)	Electrode Size (μm)
NDGD070001	4	50V	500×500×100	100×100
NDGD070002	6	50V	500×500×100	100×100
NDGD070003	10	50V	500×500×100	100×100
NDGD070004	15	50V	500×500×100	100×100
NDGD070005	20	50V	500×500×100	100×100
NDGD070006	47	50V	500×500×100	100×100
NDGD070007	100	50V	500×500×100	100×100

Silicon Beam-Lead Capacitors

Part Number	Capacitance (pF)	V _{BR} (V)	Dimensions (μm)
NDGD080001	50	0.5	960×330×60
NDGD080002	50	1	960×330×60
NDGD080003	50	2	960×330×60
NDGD080004	50	3	960×330×60
NDGD080005	50	4	960×330×60
NDGD080006	50	6	960×330×60
NDGD080007	50	10	960×330×60
NDGD080008	50	15	960×330×60
NDGD080009	50	20	960×330×60

Stepped Electrode Capacitors

Part Number	Capacitance (pF)	V _{BR} (V)	Dimensions (μm)
NDGD090001	100	0.1/0.2/0.4/0.8	420×420×150
NDGD090002	100	0.2/0.4/0.8/1.6	420×420×150
NDGD090003	100	0.25/0.5/1/2	420×420×150
NDGD090004	100	0.35/0.7/1.5/3	420×420×150
NDGD090005	50	0.5/1/2/4	420×420×150
NDGD090006	50	1/2/4/8	420×420×150
NDGD090007	50	1.5/3/6/12	420×420×150
NDGD090008	50	2/4/8/16	420×420×150
NDGD090009	100	0.3/0.3/0.9	280×280×150
NDGD090010	50	1.4/1.4/4.3	280×280×150
NDGD090011	100	0.3/0.6/0.9/1.2	380×380×120

Planar Capacitor Arrays

Part Number	V _{BR} (V)	Capacitance (pF)	Dimensions (μm)	Single Bond Pad Size (μm)
NDGD100001	100	100/100	0.53×0.25×0.12	0.18×0.18
NDGD100002	100	1000/1000	0.79×0.38×0.12	0.28×0.28
NDGD100003	200	100/100	0.53×0.25×0.12	0.18×0.18
NDGD100004	200	1000/1000	1.03×0.50×0.12	0.40×0.40
NDGD100005	200	22/22/22/22/22	3.02×0.58×0.15	0.52×0.52
NDGD100006	100	47/47/47/47/47	3.02×0.58×0.15	0.52×0.52
NDGD100007	100	100/100/100/100/100	3.87×0.75×0.15	0.68×0.68

Single Layer Ceramic Capacitors

Part Number	V _{BR} (V)	Capacitance (pF)	Dimensions (μm)	Bond Pad Size (μm)
NDGD120001	25	100	0.254×0.254	0.20×0.20
NDGD120002	25	1000	0.762×0.762	0.66×0.66
NDGD120003	50	100	0.381×0.381	0.28×0.28
NDGD120004	50	150	0.508×0.508	0.40×0.40
NDGD120005	50	200	0.508×0.508	0.40×0.40
NDGD120006	50	330	0.508×0.508	0.40×0.40
NDGD120007	50	470	0.635×0.635	0.53×0.53
NDGD120008	50	1000	0.889×0.889	0.79×0.79
NDGD120009	100	10	0.254×0.254	0.20×0.20
NDGD120010	100	22	0.381×0.381	0.28×0.28
NDGD120011	100	47	0.508×0.508	0.40×0.40
NDGD120012	100	100	0.635×0.635	0.53×0.53

Single Value Thin Film Resistors

Part Number	Resistance (Ω)	Max. Current (mA)	Dimensions (μm)
NDGD130001	2	300	530×530×100
NDGD130002	5	300	530×530×100
NDGD130003	8	300	530×530×100
NDGD130004	10	300	530×530×100
NDGD130005	12	300	530×530×100
NDGD130006	15	300	530×530×100
NDGD130007	20	300	530×530×100
NDGD130008	25	300	530×530×100
NDGD130009	30	300	530×530×100
NDGD130010	40	300	530×530×100
NDGD130011	45	300	530×530×100
NDGD130012	50	300	530×530×100
NDGD130013	100	300	530×530×100
NDGD130014	200	200	530×530×100
NDGD130015	470	100	530×530×100
NDGD130016	1000	100	530×530×100
NDGD130017	40	300	610×530×100
NDGD130018	50	300	680×530×100
NDGD130019	100	300	910×450×100

Multiple Value Thin Film Resistors 1

Part Number	Resistance (Ω)	Max. Current (mA)	Dimensions (μm)
NDGD130020	04/8/12	150	530×530×100
NDGD130021	05/10/15	150	530×530×100
NDGD130022	10/20/30	150	530×530×100
NDGD130023	20/40/60	150	530×530×100
NDGD130024	25/50/100	150	530×530×100
NDGD130025	50/100/150	100	530×530×100

Multiple Value Thin Film Resistors 2

Part Number	Resistance (Ω)						Max. Current (mA)	Dimensions (μm)
	A-B	A-C	A-D	B-C	B-D	C-D		
NDGD130026	100	200	400	300	500	600	100	530×530×100
NDGD130027	500	1000	2000	1500	2500	3000	50	530×530×100
NDGD130028	300	600	1200	900	1500	1800	50	530×530×100
NDGD130026	100	200	400	300	500	600	100	530×530×100

Multiple Value Thin Film Resistors 3

Part Number	W (μm)	W1 (μm)	W2 (μm)	L (μm)	L1 (μm)	L2 (μm)	T	R1-2 (Ω)	R2-3 (Ω)	R3-4 (Ω)	Max. Current (mA)
NDGD130029	530	370	130	530	370	130	100	50	50	100	100
NDGD130030	530	370	130	530	370	130	100	3	6	-	100
NDGD130031	530	370	130	530	370	130	100	4	8	-	100
NDGD130032	530	370	130	530	370	130	100	20	40	-	100
NDGD130033	530	370	130	480	320	130	100	5	10	-	100
NDGD130034	530	370	130	480	320	130	100	20	10	-	100

Power Resistors

Part Number	Max. Power (W)	Resistance (Ω)	L (mm) ±0.25	W (mm) ±0.25	T (mm) ±0.1	A (mm) ±0.01	B (mm) ±0.01
NDGD130035	2	10	1.00	1.00	0.25	0.90	0.29
NDGD130036	20	50	1.14	0.64	0.38	0.51	0.28
NDGD130037	20	100	1.14	0.64	0.38	0.51	0.28
NDGD130038	150	100	5.00	2.50	0.50	2.10	0.50

Thin Film Power Loads

Part Number	Frequency (GHz)	Max. Power (W)	VSWR	L (mm) ±0.1	W (mm) ±0.1	T (mm) ±0.03	A (mm) ±0.01	B (mm) ±0.01
NDGD140024	DC-0.5	300	1.5:1	4.9	4.9	0.38	1	1
NDGD140026	DC-0.5	500	1.25	8.0	5.0	0.38	7.5	0.9
NDGD140015	DC-0.8	600	1.25	7.9	6.74	0.5	3.22	1.01
NDGD140009	DC-1.1	150	1.20	9.5	6.35	1	1.27	1.4
NDGD140014	DC-2	300	1.25	5.9	3.8	0.5	1.6	1.1
NDGD140025	DC-2	400	1.25	5.8	4.0	0.38	1	1
NDGD140008	DC-2.5	100	1.20	5.7	8.9	1	1.27	1
NDGD140013	DC-2.7	250	1.25	5.4	3.4	0.5	1.7	0.9
NDGD140012	DC-3	200	1.2	4.4	3.0	0.5	1.61	0.61
NDGD140007	DC-4	60	1.25	6.2	6.2	1	2.28	0.508
NDGD140011	DC-4	150	1.2	3.7	2.6	0.5	1.1	0.6
NDGD140023	DC-6	300	1.25	4.06	3.05	0.38	0.76	0.7
NDGD140010	DC-7	100	1.25	3.1	2.15	0.5	0.93	0.55
NDGD140021	DC-14	125	1.3	3.23	2.57	0.38	1.17	0.74
NDGD140022	DC-14	125	1.6	3.3	2.54	0.38	1.15	0.54
NDGD140004	DC-18	10	1.35	1.27	2.54	0.25	0.8	0.6
NDGD140005	DC-18	20	1.25	2.54	5.08	0.635	0.86	0.51
NDGD140006	DC-18	20	1.5	2.0	1.2	0.5	0.5	0.33
NDGD140017	DC-20	50	1.4	1.4	1.4	0.38	1.17	0.3
NDGD140018	DC-20	50	1.6	1.4	1.4	0.38	1.01	0.16
NDGD140020	DC-20	100	1.4	2.16	1.40	0.38	0.52	0.31
NDGD140003	DC-22	10	1.5	1	1.4	0.1		
NDGD140019	DC-28	50	1.6	1.68	0.89	0.38	0.51	0.76
NDGD140002	DC-35	5	1.5	0.8	0.8	0.25	0.65	0.07
NDGD140001	DC-40	1	1.6	0.5	0.4	0.1		
NDGD140016	DC-40	20	1.5	0.98	0.98	0.38	0.4	0.1

Fixed Attenuators

Part Number	Frequency Range (GHz)	Attenuation (dB)	VSWR	Input Power (w)	Dimensions (mm)
NDGD150029	DC~12	1	1.5	20	1.4×1.4×0.30
NDGD150030	DC~12	2	1.5	20	1.4×1.4×0.30
NDGD150031	DC~12	3	1.5	20	1.4×1.4×0.30
NDGD150032	DC~12	4	1.5	20	1.4×1.4×0.30
NDGD150033	DC~12	5	1.5	20	1.4×1.4×0.30
NDGD150034	DC~12	6	1.5	20	1.4×1.4×0.30
NDGD150011	DC~20	0	1.2	2	0.77×0.77×0.25
NDGD150012	DC~20	3	1.2	2	0.77×0.77×0.25
NDGD150013	DC~20	6	1.2	2	0.77×0.77×0.25
NDGD150014	DC~20	10	1.4	2	0.77×0.77×0.25
NDGD150015	DC~20	15	1.4	2	0.77×0.77×0.25
NDGD150016	DC~20	20	1.4	2	0.77×0.77×0.25
NDGD150017	DC~30	0	1.4	5	0.8×0.8×0.38
NDGD150023	DC~30	0	1.5	20	1.4×1.4×0.38
NDGD150018	DC~30	3	1.4	5	0.8×0.8×0.38
NDGD150024	DC~30	3	1.5	20	1.4×1.4×0.38
NDGD150019	DC~30	6	1.4	5	0.8×0.8×0.38
NDGD150025	DC~30	6	1.5	20	1.4×1.4×0.38
NDGD150020	DC~30	10	1.4	5	0.8×0.8×0.38
NDGD150026	DC~30	10	1.5	20	1.4×1.4×0.38
NDGD150021	DC~30	15	1.4	5	0.8×0.8×0.38
NDGD150027	DC~30	15	1.5	20	1.4×1.4×0.38
NDGD150022	DC~30	20	1.4	20	0.8×0.8×0.38
NDGD150028	DC~30	20	1.5	20	1.4×1.4×0.38
NDGD150001	DC~40	0	1.2	1	0.5×0.5×0.1
NDGD150002	DC~40	2	1.2	1	0.5×0.5×0.1
NDGD150003	DC~40	3	1.2	1	0.5×0.5×0.1
NDGD150004	DC~40	6	1.4	1	0.5×0.5×0.1
NDGD150005	DC~40	10	1.4	1	0.5×0.5×0.1
NDGD150006	DC~40	12	1.4	1	0.5×0.5×0.1
NDGD150007	DC~40	14	1.4	1	0.5×0.5×0.1
NDGD150008	DC~40	16	1.4	1	0.5×0.5×0.1
NDGD150009	DC~40	18	1.4	1	0.5×0.5×0.1
NDGD150010	DC~40	20	1.4	1	0.5×0.5×0.1

Planar Inductors

Part Number	Current (mA)	Inductance (nH)	Resistance (Ω)	Q Value	Dimensions ($\pm 0.05\text{mm}$)	Bond Pad Size (μm)
NDGD160001	250	2.2	0.32	4.5	0.559×0.559×0.25	90
NDGD160002	250	3.5	0.47	4.5	0.559×0.559×0.25	90
NDGD160003	250	5.1	0.55	5.3	0.559×0.559×0.25	90
NDGD160004	250	7.3	0.83	5.9	0.635×0.635×0.25	90
NDGD160005	250	12	1.14	7.0	0.762×0.762×0.25	90
NDGD160006	250	21.9	1.72	9.6	0.864×0.864×0.25	90
NDGD160007	250	40.6	1.99	10.9	0.965×0.965×0.25	90
NDGD160008	250	50	4.6		1.016×1.016×0.25	90
NDGD160009	250	78.3	3.35	18.1	1.270×1.270×0.25	90
NDGD160010	250	112.7	4.63	16.9	1.321×1.321×0.25	90
NDGD160011	250	200	8.5		1.905×1.905×0.25	90
NDGD160012	150	35	3.4		0.762×0.762×0.25	90
NDGD160013	150	70	5.7		1.016×1.016×0.25	90
NDGD160014	150	150	9.5		1.270×1.270×0.25	90
NDGD160015	150	250	14.1		1.524×1.524×0.25	90
NDGD160016	10	50	8.9		0.508×0.508×0.25	90



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