

MMIC / Module Transistor

Selection Guide

2015 Version

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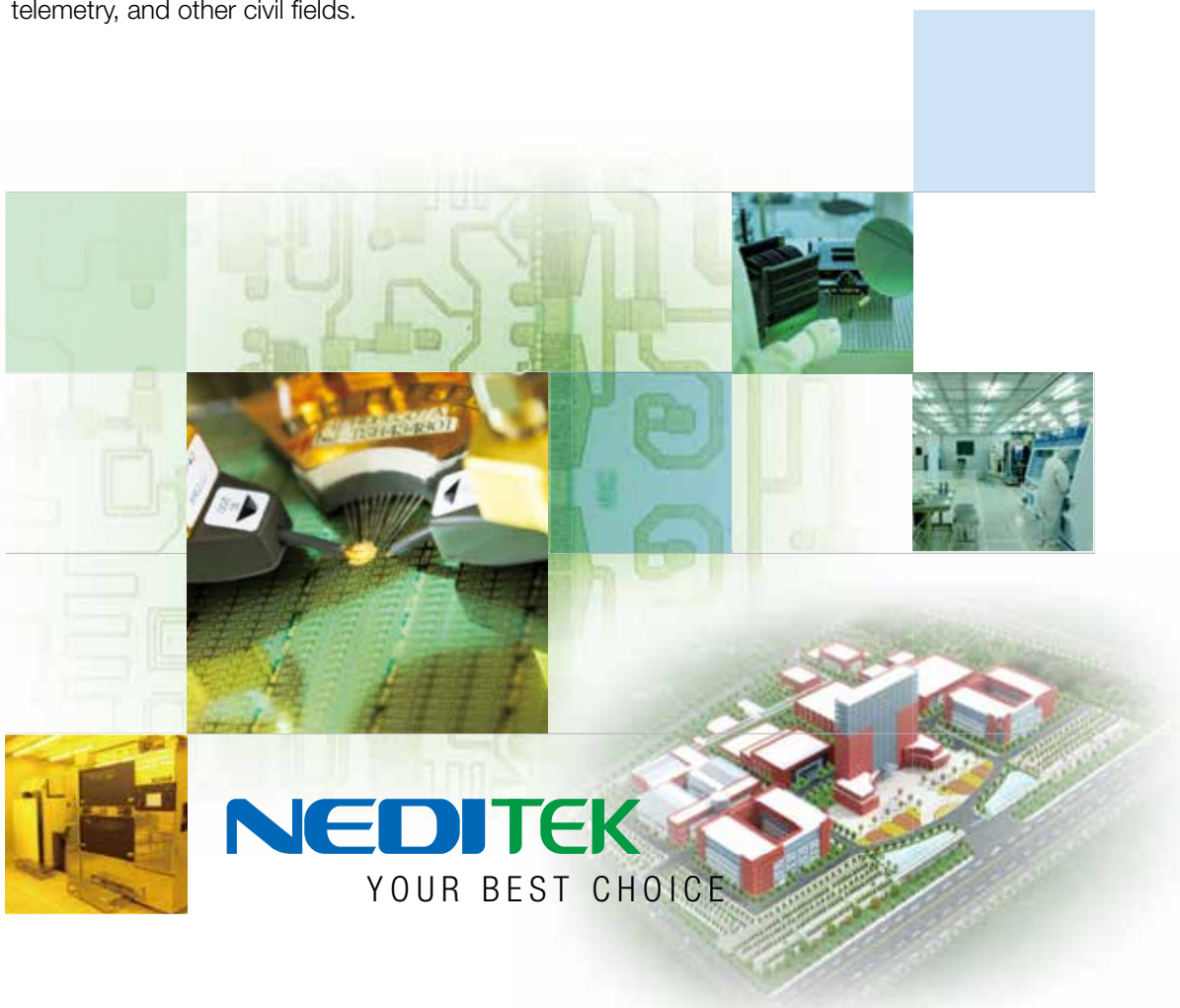
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Introduction

NEDI Technology Co., LTD (NEDITEK) is the trading company dealing with semi-conductor components and modules. It is specialized in providing high reliability microwave and millimeter-wave circuits, modules and sub-systems. All the offered products and solutions have reached international standards and could be developed according to customer's requirements for product parameters, outline, encapsulation, and reliability etc.

NEDITEK offers qualified Microwave and Millimeter-wave products and solutions for a wide range of applications like automobile telematics and sensors, radio and wireless communication sets, satellite remote sensing and telemetry, and other civil fields.



GaN Power Amplifier

Part Number	Frequency (GHz)	Power Gain (dB)	Psat (dBm)	PAE (%)	Bias Voltage (V)	Quiescent Current (A)	Chip size (mm)
NDNC01001	2-6	20	44	35	28	1.8	3*4.1*0.08
NDNC01012*	2-18	16	38	18	28	0.2	2.5*3.2*0.08
NDNC01002	2.5-4	22	45	40	28	3.8	3*4.1*0.08
NDNC01003	5-6	25	48	40	28	3	3.2*5.3*0.08
NDNC01013*	5-6	32	48	40	28	3	3.2*5.3*0.08
NDNC01014*	5-6	18	27	15	28	0.15	1.5*1.2*0.08
NDNC01015*	5-6	25	27	15	28	0.15	2.2*1.1*0.08
NDNC01020*	6-18	24	37	20	24	0.5	2.2*1.6*0.08
NDNC01006	8-12	20	42	35	28	1	3*2.5*0.08
NDNC01007	8-12	20	44	38	28	1.5	3*3.7*0.08
NDNC01008	8-12	20	46	35	28		2.4*3.8*0.08
NDNC01016*	8-12	25	27	15	28	0.15	2.2*1.1*0.08
NDNC01004	8.5-9.5	20	47	40	28	2	3*5.3*0.08
NDNC01005	8.5-10.5	21	45	40	28	3.8	3*5.3*0.08
NDNC01017*	9-10	28	42	50	24	1	2.4*2.5*0.08
NDNC01011	10-18	19	43	25	28		2.4*3.2*0.08
NDNC01021*	10-18	20	27	15	28	0.15	2.2*1.1*0.08
NDNC01009	13-17	20	43	30	28	1	2.3*3*0.08
NDNC01018*	13-17	28	41	28	28	0.8	2.3*2.2*0.08
NDNC01022*	14-18	12	25	15	28	0.1	1.5*1.1*0.08
NDNC01010	15-17	20	42	35	28	0.9	2.3*1.9*0.08
NDNC01019*	15-17	28	43	36	28	1.2	3.0*1.9*0.08
NDNC01023*	16.5-17.5	26	39	35	28	1.1	2.3*1.3*0.08
NDNC01024*	34-36	16	40	15	24	0.2	3.0*3.4*0.08

*: New Product Released from Dec.2014 until Sep.2015.

GaN Power Switch

Part Number	Function	Frequency (GHz)	IL (dB)	Isolation (dB)	Input P-0.1 (dBm)	VSWR	Ton-off (ns)	Control Input Voltage	Chip Size (mm)
NDNC02001	SPDT, Reflective, High Input Power	DC-7	0.4	30	46	1.2	20	0/-40V	1.2*0.82*0.1
NDNC02002	SPDT, Reflective, High Input Power	DC-12	0.8	35	42	1.5	20	0/-40V	1.2*0.82*0.1
NDNC02003	SPDT, Reflective, High Input Power	DC-12	1	40	44	1.8	20	0/-40V	1.2*0.82*0.1
NDNC02004	SPDT, Reflective, Low IL, High Input Power	DC-18	0.8	30	38	1.3	20	0/-40V	1.2*0.82*0.1
NDNC02005	SPDT, Reflective, High Input Power	DC-18	1.5	35	44	1.8	10	0/-40V	1.8*0.82*0.1
NDNC02009*	SPDT, Reflective, High Input Power	DC-20	1.3	30	35	1.6	20	0/-40V	1.18*0.74*0.1
NDNC02016*	SPDT, Reflective	DC-7	0.4	30	46	1.2	20	0/-40V	1.2*0.82*0.1
NDNC02017*	SPDT, Reflective	DC-12	1	40	44	1.8	20	0/-40V	1.8*0.82*0.1
NDNC02018*	SPDT, Reflective	DC-18	0.8	35	38	1.2	20	0/-40V	1.2*0.82*0.1
NDNC02019*	SPDT, Reflective	DC-18	1.5	35	44	1.8	10	0/-40V	1.8*0.82*0.1
NDNC02022*	SPDT, Reflective	DC-3	0.3	30	46.5	1.2	20	0/-40V	1.2*0.82*0.1
NDNC02023*	SPDT, Reflective	DC-6	0.8	30	47.5	1.6	20	0/-40V	1.2*0.85*0.1
NDNC02028*	SPDT, Reflective	DC-18	0.8	35	37.5	1.2	20	0/-40V	1.2*0.8*0.1
NDNC02010*	SPDT, Reflective, High Input Power TR Switch	8-12	0.65	30	45	1.5	10	0/-40V	1.8*1.43*0.1
NDNC02024*	SPDT, Reflective	8-12	0.6/0.9	22/28	47/42	1.3/1.5	10	0/-40V	1.8*0.85*0.1
NDNC02027*	SPDT, Reflective	8-12	0.65	30	45	1.5	10	0/-40V	1.8*1.43*0.1
NDNC02025*	SPDT, Reflective	10-18	0.7/1.2	20/28	47/42	1.6/2	10	0/-40V	1.8*0.85*0.1
NDNC02020*	SPDT, Reflective	12-18	0.6	30	40	1.5	10	0/-40V	1.8*1.19*0.1
NDNC02026*	SPDT, Reflective	15-18	0.9	40	43	1.5	10	0/-40V	1.8*0.87*0.08
NDNC02021*	SPDT, Reflective	30-40	1.1	30	38	1.3	20	0/-40V	1.85*0.8*0.1

*: New Product Released from Dec.2014 until Sep.2015.

GaAs Power Amplifier

Part Number	Frequency (GHz)	Gain (dB)	Psat (P-1) (dBm)	VSWRin	Bias Voltage (V)	Dynamic Current (A)	PAE (%)	Chip Size (mm)
NDAC01001	DC-4	20	-12	1.3	4.7	0.035	/	0.73*0.56*0.075
NDAC01002	DC-4	21	-17	1.3	4.6	0.065	/	0.83*0.56*0.075
NDAC01003	DC-4	20	-19	1.3	5	0.08	/	0.81*0.56*0.075
NDAC01004	DC-4	16	-11	1.3	4.7	0.035	/	0.63*0.56*0.075
NDAC01066*	DC-6	15	14	1.5	3.2	0.048	/	1.05*0.5*0.1
NDAC01067*	0.1-4	15	16	1.4	3.4	0.04	/	0.67*1.1*0.1
NDAC01068*	0.1-2.0	12.5	15	1.5	5	0.056	/	1.05*1.0*0.1
NDAC01005	0.2-3.5	17	-15	1.4	5	0.04	/	0.68*0.56*0.075
NDAC01006	0.2-3.5	20	-16	1.25	5	0.045	/	0.75*0.56*0.075
NDAC01007	0.2-3.5	20	-21	1.8	6.5	0.125	/	0.89*0.56*0.075
NDAC01069*	0.2-3.2	14	19	1.4	5	0.043	/	1.05*0.5*0.1
NDAC01070*	0.8-2	23	27.5	1.5	8	0.35	25	1.05*1.0*0.1
NDAC01071*	1.9-3	31	33.6	1.5	5		39.9	2.85*2.9*0.08
NDAC01008	2-6	14	19.5	1.5	8	0.1	/	2.1*1.6*0.08
NDAC01009	2-6	25	20.5	2	8	0.11	/	2.6*1.6*0.08
NDAC01010	2-6	24	26.5	1.5	8	0.35	20	2.8*1.6*0.08
NDAC01011	2-6	27	36.5	2.3	8	2	28	3.6*2.8*0.08
NDAC01012	2-6	23	39.5	2	9/-0.5	4.5	22	4.3*5.6*0.08
NDAC01072*	2-6	23	32	2	5/-0.6	1.25	25	3.7*2.8*0.08
NDAC01073*	2-6	24	38	2.3	10	2.5	23	3.6*2.8*0.08
NDAC01074*	2-12	20	30	2	8	0.75	17	3.5*1.4*0.08
NDAC01075*	2.5-6.5	24	35.5	2	8/-0.6	1.75	25	3.7*2.8*0.08
NDAC01013	2.7-3.5	26	41	2	8.5	6.6	30	3.6*4.0*0.08
NDAC01076*	2.7-3.5	27	27.5	2	9	0.45	/	2.47*1.6*0.08
NDAC01046	3-18	19	28	2	o	0.6	20	3.3*1.8*0.08
NDAC01077*	4.8-6	25	22.5	1.6	8	0.14	/	2.6*1.6*0.08
NDAC01014	5-6	19	21.5	1.8	8	0.11	/	2.1*1.6*0.08
NDAC01015	5-6	32	36.5	2	8	1.75	35	3.6*2.6*0.08
NDAC01016	5-6	31	38.5	1.8	10	2.25	34	3.6*2.6*0.08
NDAC01078*	5-6	32	36.5	2	8	1.75	35	3.6*2.6*0.08

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Part Number	Frequency (GHz)	Gain (dB)	Psat (P-1) (dBm)	VSWRin	Bias Voltage (V)	Dynamic Current (A)	PAE (%)	Chip Size (mm)
NDAC01079*	5-6	37	41	2.5	8	4.5	32	3.6*3.4*0.08
NDAC01017	5.2-5.8	32	40.2	2	9	2.5	45	3.6*2.6*0.08
NDAC01080*	5.2-5.8	32	40.2	2	9	2.5	45	3.6*2.6*0.08
NDAC01018	5.3-5.9	30	42	1.5	9	5.5	37	3.5*3.6*0.08
NDAC01081*	5.3-5.9	30	42	1.5	9	5.5	37	3.5*3.6*0.08
NDAC01041	6-18	15.5	19	1.5	5	0.094	/	0.95*0.95*0.1
NDAC01042	6-20	17	14/13	2	5	0.036	/	0.92*0.92
NDAC01043	6-18	23	31	2	5	1.15	30	2.95*2.25*0.1
NDAC01044	6-18	20	36	2.5	8	2.5	25	3.5*4.0*0.08
NDAC01045	6-18	24	34.5(Single Channel); 37(Dual Channel Combined)	2.5	8	1.75 (Single Channel)	22	4.3*5.7*0.08
NDAC01082*	6-8	27	40	2	8.5	4.5	30	3.5*3.2*0.08
NDAC01083*	6-18	15.5	19	1.5	5	0.094	/	0.95*0.95*0.1
NDAC01084*	6-18	13	18	1.2	5	0.07	/	1.05*0.95*0.1
NDAC01085*	6-18	15	22	1.6	5/8	0.19	/	2.0*1.2*0.08
NDAC01086*	6-18	22.5	22	2	5/8	0.2	/	2.0*1.2*0.08
NDAC01087*	6-18	23	34.5	1.5	8	1.4/2.8	25	4.3*5.7*0.1
NDAC01088*	6-18	23	37.5	2	8	1.5/3	25	4.3*5.7*0.1
NDAC01019	7.7-8.5	32	41	1.8	8	6	43	3.2*4*0.08
NDAC01089*	7.7-8.5	32	41	1.8	8-8.5	3.8	43	3.5*4*0.08
NDAC01027	8-12	13	21	1.5	8	0.1	/	2.1*1.5*0.08
NDAC01028	8-12	16	21	1.5	8	0.1	/	2.1*1.5*0.08
NDAC01029	8-12	14	23	1.2	8	0.12	/	2.1*1.5*0.08
NDAC01030	8-12	24	33.5	1.5	8	1	35	3*1.8*0.08
NDAC01031	8-12	25	41.3	2	8	4.5	37	3.2*4*0.08
NDAC01090*	8-12	22	21.5	1.6	8	0.12	/	2.67*1.6*0.08
NDAC01091*	8-12	16	22	1.2	8	0.13	/	2.6*2.9*0.08
NDAC01092*	8-12	21	24	1.5	8	0.15	/	2.67*1.6*0.08
NDAC01093*	8-12	28	37.5	/	7-8	2	42	3.5*3*0.08
NDAC01094*	8-12	26	39.5	2	8	3.75	37	3.2*4*0.08
NDAC01023	8.5-10.5	19	19.5	1.5	8.5	0.12	/	2.1*1.57*0.08

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Part Number	Frequency (GHz)	Gain (dB)	Psat (P-1) (dBm)	VSWRin	Bias Voltage (V)	Dynamic Current (A)	PAE (%)	Chip Size (mm)
NDAC01024	8.5-10.5	30	34	2	8	0.75	48	3*1.8*0.08
NDAC01025	8.5-10.5	25	40.5	1.8	8	3.75	36	3.5*3.9*0.08
NDAC01026	8.5-10.5	25	41.2	2.7	8.5	4	40	3.2*4*0.08
NDAC01095*	8.5-10.5	19	19.5	1.5	8.5	0.12	/	2.1*1.57*0.08
NDAC01096*	8.5-10.5	27	42	1.6	8.5	4.6	40	3.2*4*0.08
NDAC01020	9-10	20.5	28.5	1.3	8	0.3	42	1.5*3*0.08
NDAC01021	9-10.2	16	20	1.6	8	0.1	/	2.1*1.5*0.08
NDAC01022	9-10.2	27	41	1.8	8	3.75	40	3.2*4*0.08
NDAC01097*	9-10	20.5	28.5	1.3	8	0.21	43	1.5*3*0.08
NDAC01098*	9-10.2	28.5	39	/	9	4	45	3.2*4*0.08
NDAC01032	11.5-12.5	27	41.3	2	8.5	4.5	33	3.2*4*0.08
NDAC01035	12-17	24	37	2.5	8	3	22	3.5*3.4*0.08
NDAC01033	13.0-14.5	23	42	1.5	8	6	32	3.2*4.5*0.08
NDAC01037	14-18	22	20.5	1.5	8	0.12	/	2.1*1.5*0.08
NDAC01038	14-18	24	35	1.5	8	1.13	35	3.129*2.086
NDAC01099*	14-18	23	40	2	8	5	32	3.5*4*0.08
NDAC01036	14.5-17.5	23	38	1.6	8	3	33	3.5*3.4*0.08
NDAC01039	14.5-18	22	40	1.5	8	2	32	3.016*4.288*0.1
NDAC01034	15-16.5	27	38	3	8	3.5	24	3.5*3.4*0.08
NDAC01040	15.5-18	19	39	3	6	0.12	/	1.4*0.9*0.08
NDAC01047	19-22	26	26	1.5	5	0.35	38	2*1.2*0.05
NDAC01061	19-38	22	22	2.5	6	0.2	15	2.64*1.04*0.05
NDAC01100*	19-23	28	23	/	5	0.1	39	2*1*0.05
NDAC01048	20-23	25	38	2	6	3.4	30	3.5*4.2*0.05
NDAC01049	22-23	15	21	2	5	0.068	30	1.172*0.85
NDAC01050	25-27	22	37	2	6	5	27	3*4.2*0.05
NDAC01101*	25-27	26	21	2	5	0.08	36	1*2.2*0.05
NDAC01102*	25-27.5	27	25	/	5	0.24	28	1*2.2*0.05
NDAC01062	26-40	23	27.5	3	6	0.65	15	2.64*1.96*0.05
NDAC01063	26-40	21	35	1.1	6	2.75	18	3*4.4*0.05
NDAC01051	29-32	21	36.5	2	6	4.5	20	3.5*4.2*0.05
NDAC01052	29-31.5	26	23	1.5	5	0.35	28	1*2.2*0.05
NDAC01064	30-40	21	33	2.5	6	1.4	22	2.6*2.4*0.05

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Part Number	Frequency (GHz)	Gain (dB)	Psat (P-1) (dBm)	VSWRin	Bias Voltage (V)	Dynamic Current (A)	PAE (%)	Chip Size (mm)
NDAC01056	32-37	19.5	10	2	3.3	0.048	/	1.37*0.75
NDAC01057	32-37	22	12	2	3.3	0.07	/	1.72*0.75
NDAC01058	33-37	22	25	1.8	5	0.3	27	3.4*2*0.05
NDAC01059	33-37	22	28	1.3	5	0.6	25	3.6*2*0.05
NDAC01060	33-37	20	30	1.3	5	5	30	3*1.6*0.05
NDAC01103*	33-37	23	30	1.1	6	0.42	30	3.67*2.3*0.05
NDAC01104*	33-37	25	35.5	3	6	3.25	20	3*4.5*0.05
NDAC01053	34-36	16	6	2	6	0.04	/	1.8*0.9*0.05
NDAC01054	34-36	21	20	2	6	0.085	/	1.8*0.9*0.05
NDAC01055	34-36	18	37	2	6-6.5	3.5	22	3*4.3*0.05
NDAC01105*	34-36	18	33	2	6	1.6	25	3*2.6*0.05
NDAC01106*	43-46	16	34	2	6	2.5	18	3.5*4.8*0.05

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GaAs Low Noise Amplifier

Part Number	Frequency (GHz)	Gain (dB)	VSWR	NF (dB)	Voltage (V)	Current (mA)	P-1 (dBm)	Chip Size (mm)
NDAC02040*	0.05-0.7	27	1.7/1.5	0.8	6	90	20	1.05*1*0.1
NDAC02041*	0.05-1	22	1.3/1.6	0.7	5	50	20	1.1*1.17*0.1
NDAC02044*	0.1-2	16.5	1.4/1.6	1.7	5	64	16	1.05*1*0.1
NDAC02042*	0.3-1	22	1.3/1.8	0.7	5	53	20	1.1*1.57*0.1
NDAC02001	0.8-3.2	20	1.4/1.5	0.7	5	73	7	1.215*1.645*0.1
NDAC02002	0.8-3.2	20	1.4/1.6	0.8	5	80	8	1.215*1.645*0.1
NDAC02003	0.8-3.2	18	1.4/1.8	1.8	5	73	17	1.215*1.3*0.1
NDAC02043*	0.8-20	19	1.3/1.5	3.5	5	80	17	3.3*1.5*0.1
NDAC02045*	1-12	18	1.5	1.8	5	95	12	2.64*1.64*0.1
NDAC02004	2-6	14	2.2	2.5	5	75	12	2.4*2.2*0.1
NDAC02021	2-18	17	1.3/1.5	2.2	5	52	13.5	3.04*1.54*0.1
NDAC02029	2-20	17	1.3/1.5	2.5	5	61	15.5	3*1.5*0.1
NDAC02030	2-20	20	1.5/1.8	2.5	5	55	16	2.7*1.63*0.1
NDAC02031	2-20	18	1.3/1.5	2.5	5	70	16.5	3.04*1.54*0.1
NDAC02032	2-20	18	1.3/1.5	2.5	5	70	16.5	3.04*1.54*0.1
NDAC02046*	2-6	17	2.2	2.5	5	85	10	3.1*2.2*0.1
NDAC02047*	2-6	25	2.5	2.5	5	75	13	3.15*2.28*0.1
NDAC02052*	2-18	17	1.5/1.5	3.5	5	48	15	2.68*1.36*0.1
NDAC02005	4-6	27	1.6/1.3	1.1	5	13	7	1.78*1.38*0.1
NDAC02006	4.5-6.5	23	1.5	1	5	50	13	2.35*1.2*0.1
NDAC02007	4.5-6.5	25	1.4/1.6	1.1	5	35	12.5	2.39*1.36*0.1
NDAC02008	4.5-7	26	1.6/1.5	0.9	5	55	13	2.39*1.36*0.1
NDAC02009	5-6	30	1.3	1.3	4	50	10	2.5*1.2*0.1
NDAC02010	5-6	15	1.3/1.6	1.9	4	35	14	1.65*1.2*0.1
NDAC02048*	5-6	25	1.6/1.6	1	5	22	8.5	2.39*1.36*0.1
NDAC02049*	5-6	10.5	1.6/1.2	3.3	5	30	14.5	1.65*1.35*0.1
NDAC02022	6-18	19.5	2	1.5	3.5	80	15.5	
NDAC02023	6-18	25	1.6/2.0	1.6	5	70		2.5*1.46*0.1
NDAC02024	6-18	19.5	2	1.8	5	75	16	1.335*1.05*0.1
NDAC02025	6-18	9.5	1.4/1.3	3.5	5	74	19	2.13*1.34*0.1
NDAC02033	6-20	17	2	3.5	5	60	10	2.3*1.63*0.1
NDAC02053*	6-18	22	1.6	1.5	4.7	42	5	2*1*0.1
NDAC02054*	6-18	9	1.6	2.5	3	42	13	1*1*0.1
NDAC02011	7-11	23	1.8	1.1	5	35	9	1.75*1.63*0.1
NDAC02012	7-11	18	1.6	1.1	4/5	38/42	4.5	1.92*1.63*0.1
NDAC02013	7-11.5	28	1.8	1.1	5	70	14	2.11*1.63*0.1
NDAC02014	7-11.5	26	1.8/1.6	1.2	3.3	34	5	2.11*1.63*0.1

*: New Product Released from Dec.2014 until Sep.2015.

Part Number	Frequency (GHz)	Gain (dB)	VSWR	NF (dB)	Voltage (V)	Current (mA)	P-1 (dBm)	Chip Size (mm)
NDAC02019	7-13	20	1.7/1.9	1.7	5	52	16	2.22*1.63*0.1
NDAC02020	7-13	19	1.6/1.9	1.3	5	14	6	2*1.63*0.1
NDAC02015	8-12	22	2	1.3	5	17	6.5	1.004*1.46*0.1
NDAC02016	8-12	20	1.9	1.5	5	60	7	1.73*1.63*0.1
NDAC02017	8-12	24	1.6	1.6	5	65	12	2.12*1.63*0.1
NDAC02018	8-12	9	1.8/1.6	3	3-5	35	14	1.52*1.48*0.1
NDAC02050*	8-12	13.5	1.2/2.0	3.8	5	24	13	1.7*1.05*0.1
NDAC02055*	10-18	25	1.5	1.5	5	15	3	1.86*1*0.1
NDAC02059*	10-22	18	2	3.5	5	80	16	2.56*2*0.08
NDAC02051*	11-15	25	2/1.8	1.5	5	65	9	2.36*1.68*0.1
NDAC02026	12-18	21	1.7	1.5	5	55	10	2.3*1.38*0.1
NDAC02056*	12-18	17	2	1.5	3.5	20	5	1.335*0.885*0.1
NDAC02057*	12-18	24	1.5	1.8	3-5	60	8	2.05*1.45*0.1
NDAC02058*	12-18	17	1.5/2.0	2.2	4-5	55	10	1.58*1.45*0.1
NDAC02027	14-18	23	2/1.5	1.4	4-5	70	10	2.175*1.54*0.1
NDAC02028	14-18	18	1.8	1.4	5	45	9	2.12*1.78*0.1
NDAC02034	18-23	27	1.6	2.2	5	65	13	2.3*1.16*0.1
NDAC02061*	18-24	25	1.7/2.0	1.7	5	18	5	2*0.9*0.1
NDAC02062*	18-24	20	1.7/1.6	1.8	5	17	1.5	2*0.9*1
NDAC02035	19-24	24	1.3	1.6	4	24	3	1.92*0.75*0.1
NDAC02063*	19-23	29	2	1.7	3-5	9	0	2.4*0.9*0.1
NDAC02064*	19-23	15	1.7	2	3-5	7	-1.5	1.55*0.9*0.1
NDAC02065*	19-24	23	1.3	1.6	5	7	-2	1.92*0.75*0.1
NDAC02060*	22-23	17	2	/	5	12	3/6	1.335*0.76*0.1
NDAC02036	26-32	23	1.5	2	5	19	4	1.54*1.1*0.1
NDAC02066*	26-33	19	1.5	2	5	17	0	1.54*1.16*0.1
NDAC02067*	26-38	20	1.6/1.4	2.2	5	30	12	1.7*1.05*0.1
NDAC02068*	28-36	10	1.7	2.5	5	45	14	1.545*1.5*0.1
NDAC02037	29-31	27	1.5	1.8	5	19	0	2.3*1.1*0.1
NDAC02038	29-31	22	2	2	5	20	5	1.78*1.04*0.1
NDAC02069*	29-31	27	1.5	1.8	5	19	0	2.3*1.1*0.1
NDAC02070*	29-31	22	2	2	5	20	5	1.78*1.04*0.1
NDAC02039	32-37	21	2	2	3.3/5	28	8	1.33*0.75*0.1
NDAC02071*	32-37	21	2	2	3.3	28	8	1.46*0.75*0.1
NDAC02072*	32-37	17	2	2.2	5	50	11	1.92*1.12*0.1
NDAC02073*	40-50	18	2.2/1.8	2	5	11	2	1.34*0.8*0.05

*: New Product Released from Dec.2014 until Sep.2015.

Digital Phase Shifter

Standard Phase Shifter

Part Number	Frequency (GHz)	Bits	RMS Phase Error (°)	IL (dB)	Δ IL (dB)	VSWR	Control Input Voltage	Chip Size (mm)
NDAC03001	0.26-0.5	6	3	-4.5	± 0.5	1.4	0V/-5V	8.17*1.79*0.1
NDAC03002	0.4-0.45	6	1.5	-7	± 0.3	1.4	0V/-5V	9.39*1.79*0.1
NDAC03003	0.45-0.65	6	1.5	-7	± 0.4	1.5	0V/-5V	8.4*1.78*0.1
NDAC03041*	0.7-1.5	6	4	-7	± 0.5	1.4	0V/-5V	9.8*2.9*0.1
NDAC03004	0.8-1.7	6	3	-9	± 0.5	1.4	0V/-5V	9.8*2.9*0.1
NDAC03042*	0.8-2.4	6	3	-12	± 1	1.5	0V/-5V	9.8*3.27*0.1
NDAC03005	0.9-1.3	6	1.5	-5	± 0.3	1.3	0V/-5V	5.34*1.98*0.1
NDAC03006	0.9-1.5	6	1.5	-6	± 0.3	1.4	0V/-5V	5.34*1.92*0.1
NDAC03007	1-2	6	4	-7	± 0.5	1.4	0V/-5V	9.8*2.98*0.1
NDAC03043*	1-1.5	6	1.5	-5	± 0.3	1.3	0V/-5V	5.34*1.8*0.1
NDAC03044*	1.1-1.7	6	2	-5	± 0.3	1.3	0V/-5V	5.34*1.9*0.1
NDAC03045*	1.2-1.4	6	1	-4.8	± 0.3	1.3	0V/-5V	5.34*1.98*0.1
NDAC03046*	1.2-1.4	6	1	-4	± 0.3	1.3	0V/-5V	4.85*1.9*0.1
NDAC03008	1.4-2.0	6	1.5	-6	± 0.3	1.3	0V/-5V	5.34*1.9*0.1
NDAC03009	1.6-3.2	6	3	-9.5	± 0.5	1.4	0V/-5V	9.8*2.5*0.1
NDAC03010	1.7-1.9	6	1	-5	± 0.3	1.3	0V/-5V	5.34*1.9*0.1
NDAC03011	2-2.5	6	1	-4.8	± 0.3	1.3	0V/-5V	4.5*1.5*0.1
NDAC03016	2-6.5	5	5	-9	± 1	1.8	0V/-5V	5*5*0.1
NDAC03017	2-6.5	6	5	-10	± 0.8	1.8	0V/-5V	5*5*0.1
NDAC03047*	2-3	6	1.5	-5.5	± 0.3	1.3	0V/-5V	5.67*2.91*0.1
NDAC03048*	2-6.5	5	5	-9	± 1	1.8	0V/-5V	5.6*7*0.1
NDAC03049*	2-6.5	5	5	-9	± 1	1.8	0V/-5V	5*5*0.1
NDAC03012	2.7-3.5	6	1.5	-5	± 0.3	1.3	0V/-5V	4.5*1.4*0.1
NDAC03050*	2.7-3.0	6	1	-4.8	± 0.3	1.3	0V/-5V	4.5*1.4*0.1
NDAC03051*	4-4.8	6	1	-5	± 0.3	1.4	0V/-5V	2.9*3.1*0.1
NDAC03052*	4-12	6	5	-10	± 0.8	1.5	0V/-5V	4.36*3*0.1
NDAC03013	4.3-5.1	6	1	-5.4	± 0.2	1.3	0V/-5V	4*1.3*0.1
NDAC03014	5-6	6	1	-5.6	± 0.3	1.3	0V/-5V	4*1.3*0.1
NDAC03015	5-6	5	1	-5	± 0.3	1.4	0V/-5V	3.62*1.3*0.1
NDAC03053*	5-6	6	1	-5.5	± 0.3	1.4	0V/-5V	2.9*3.1*0.1
NDAC03054*	5-6	6	1	-6	± 0.3	1.3	0V/-5V	4*1.3*0.1
NDAC03018	6-7.4	6	1.5	-6	± 0.4	1.4	0V/-5V	4*1.34*0.1
NDAC03027	6-18	5	4	-10	± 1	1.6	0V/-5V	3.2*3*0.1
NDAC03028	6-18	6	4	-12	± 1	1.6	0V/-5V	3.2*3*0.1
NDAC03019	7.9-9.0	6	1.5	-6.5	± 0.3	1.4	0V/-5V	4.05*1.63*0.1
NDAC03021	8-12	6	1.5	-7.5	± 0.4	1.4	0V/-5V	4.05*1.63*0.1

*: New Product Released from Dec.2014 until Sep.2015.

Part Number	Frequency (GHz)	Bits	RMS Phase Error (°)	IL (dB)	Δ IL (dB)	VSWR	Control Input Voltage	Chip Size (mm)
NDAC03022	8-12	4	1.5	-1.3	/	1.3	0V/-5V	1.6*1.35*0.1
NDAC03023	8-16	4	3	-8.5	± 0.5	1.5	0V/-5V	3.33*2.22*0.1
NDAC03024	8-16	5	3	-10	± 0.6	1.5	0V/-5V	2.9*3.15*0.1
NDAC03025	8-16	6	3	-10.5	± 0.5	1.5	0V/-5V	2.87*3.2*0.1
NDAC03055*	8-12	6	2.5	-8	± 0.6	1.5	0V/-5V	4.02*1.24*0.1
NDAC03056*	8-12	6	2.5	-8	± 0.5	1.5	0V/-5V	3*1.45*0.1
NDAC03020	8.5-10.5	6	1.5	-7	± 0.3	1.4	0V/-5V	4.05*1.63*0.1
NDAC03057*	9-10	6	1.5	-6.5	± 0.3	1.4	0V/-5V	4.05*1.63*0.1
NDAC03029	10-18	5	5	-11	± 0.5	1.3	0V/-5V	2.9*3.15*0.1
NDAC03026	12-15	6	1.5	-8	± 0.3	1.4	0V/-5V	3.1*1.21*0.1
NDAC03030	14-18	6	1.5	-7.5	± 0.3	1.4	0V/-5V	3.25*1.22*0.1
NDAC03058*	15-17.5	6	2	-8	± 0.4	1.4	0V/-5V	3.1*1.21*0.1
NDAC03031	17-21	6	2	-8	± 0.6	1.5	0V/-5V	3.5*1.46*0.1
NDAC03059*	18-18.8	3	3	-2	/	/	0V/-5V	1.7*0.7*0.1
NDAC03032	19-23	6	2	-8	± 0.6	1.5	0V/-5V	3.6*1.36*0.1
NDAC03060*	21.1-21.3	3	4	-2.5	/	/	0V/-5V	1.7*0.7*0.1
NDAC03033	22-26	6	2	-9	± 0.6	1.5	0V/-5V	3.19*1.39*0.1
NDAC03034	25-28.5	6	2	-8	± 0.5	1.5	0V/-5V	3.31*1.39*0.1
NDAC03061*	25-28	6	2	-9	± 0.6	1.5	0V/-5V	3.21*1.31*0.1
NDAC03035	28-32	5	2.5	-8	± 0.4	1.5	0V/-5V	2.86*1.31*0.1
NDAC03062*	28-32	6	2.5	-8	± 0.4	1.5	0V/-5V	3.2*1.4*0.1
NDAC03063*	29.9-30	3	4	-3	/	/	0V/-5V	1.5*0.7*0.1
NDAC03036	32-37	5	2.5	-7.5	± 0.6	1.5	0V/-5V	2.66*1.01*0.1
NDAC03064*	32-37	5	3	-9.5	± 0.6	1.8	0V/-5V	3.45*1.01*0.1
NDAC03037	42-46	5	2	-8.5	± 0.5	1.5	0V/-5V	2.4*1*0.1

TTL Driver Phase Shifter

Part Number	Frequency (GHz)	Bits	RMS Phase Error (°)	IL (dB)	Δ IL (dB)	VSWR	Control Input Voltage	Chip Size (mm)
NDAC03038	2.7-3.5	5.625	1	-5	± 0.3	1.3	TTL	4.18*1.5*0.1
NDAC03039	6-18	5.625	4	-12	± 1	1.6	TTL	2.74*3.5*0.1
NDAC03067*	6-18	6	4	-12	± 1	1.6	-5V	2.74*3.5*0.1
NDAC03065*	9-10	4	1	-1	± 0.2	1.1	0V/-5V	1.7*1.5*0.1
NDAC03066*	9-10	4	1	-1	± 0.2	1.2	0V/-5V	1.7*1.5*0.1
NDAC03068*	19-23	6	3	-8	± 0.5	1.5	5/-5V	3.45*2.4*0.1
NDAC03069*	25-28	6	3	-8	± 0.5	1.5	5/-5V	3.2*2.2*0.1
NDAC03070*	25-31	6	3	-9	± 0.6	1.6	5/-5V	3.2*2.2*0.1
NDAC03071*	28-32	6	2	-7	± 0.5	1.4	5/-5V	3.18*2.2*0.1
NDAC03040	42-46	11.25	2	-8.5	± 0.5	1.5	TTL	2.4*1*0.1

*: New Product Released from Dec.2014 until Sep.2015.

Digital Delayer

Standard Delayer

Part Number	Frequency (GHz)	Bits	RMS Time Delay Error (ps)	IL (dB)	Δ IL (dB)	VSWR	Control Input Voltage	Chip Size (mm)
NDAC04001	4.7-5.7	9	2°	11	±0.4	1.4	0V/-5V	10*2.55*0.1
NDAC04006	5-6	1	5PS	-13	±0.4	1.4	0V/-5V	3.45*2.97*0.1
NDAC04007	5-6	3	5PS	-12	±0.4	1.4	0V/-5V	4.04*2.97*0.1
NDAC04011*	5-6	1	20PS	-10	±0.7	1.3	0V/-5V	4.45*3.8*0.1
NDAC04012*	5-6	3	10PS	-12	±0.3	1.3	0V/-5V	5.05*3.8*0.1
NDAC04013*	5-6	5	5PS	-7.5	±0.15	1.2	0V/-5V	5.05*1.8*0.1
NDAC04002	8-12	3	10PS	-12	±0.3	1.4	0V/-5V	3.4*3.1*0.1
NDAC04003	8-12	4	10PS	-12	±0.5	1.4	0V/-5V	3.45*2.25*0.1
NDAC04004	8-12	1	1.5°	-8	±0.2	1.2	0V/-5V	4.8*1.7*0.1
NDAC04005	14-18	6	1.5°	-10	±0.3	1.4	0V/-5V	4.17*1.45*0.1

TTL Driver Delayer

Part Number	Frequency (GHz)	Bits	RMS Time Delay Error (ps)	IL (dB)	Δ IL (dB)	VSWR	Control Input Voltage	Chip Size (mm)
NDAC04014*	2-18	6	10PS	20	±0.5	1.4	TTL	5.4*2.6*0.1
NDAC04010	6-18	6	10	-22	±1	1.5	TTL	6.2*2.8*0.1
NDAC04015*	6-18	3	10PS	12	±0.7	1.3	0V/-5V	4.95*2.8*0.1
NDAC04016*	6-18	3	15PS	13	±0.3	1.3	0V/-5V	4.95*2.8*0.1
NDAC04017*	6-18	4	5PS	10	±0.6	1.4	0/-5V	3.85*2.8*0.1
NDAC04018*	6-18	4	5PS	11	±0.6	1.4	0/-5V	3.85*2.8*0.1
NDAC04008	8-12	100	10	-12	±0.5	1.4	0V/-5V	3.2*3.4*0.1
NDAC04009	8-12	100	10	-12	±0.5	1.4	0V/-5V	3.2*3.4*0.1

*: New Product Released from Dec.2014 until Sep.2015.

Digital Attenuator

Standard Attenuator

Part Number	Frequency (GHz)	Bits	LSB (dB)	IL (dB)	VSWR	Attenuation Accuracy	Ton/Toff (ns)	Control Input Voltage	Chip Size (mm)
NDAC05001	DC-4	6	0.5	1.3	1.3	$\pm (0.3+4\%Ai)$	20	0/-5V	2.1*0.95*0.1
NDAC05002	DC-6	6	0.5	0.8	1.3	$\pm (0.3+5\%Ai)$	20	0V/-5V	2*0.8*0.1
NDAC05003	DC-8	1	32	2	1.4	± 2.5	20	0/-5V	1.45*1.2*0.1
NDAC05004	DC-10	4	0.3	1.3	1.4	$\pm (0.2+5\%Ai)$	20	0/-5V	1.45*1.2*0.1
NDAC05005	DC-18	1	20	2	1.4	± 1	20	0/-5V	1.2*0.95*0.1
NDAC05006	DC-18	3	0.5	1.5	1.3	± 0.3	20	0/-5V	1.2*1*0.1
NDAC05007	DC-18	3	0.2	0.5	1.5	± 0.2	20	0/-5V	1.2*1*0.1
NDAC05008	DC-18	6	0.3	3.5	1.4	$\pm (0.2+5\%Ai)$	20	0/-5V	2.35*1.2*0.1
NDAC05009	DC-20	3	0.25	0.55	1.3	$\pm (0.3+5\%Ai)$	20	0/5V	1.35*1.0*0.1
NDAC05025*	DC-6	6	0.25	0.8	1.3	$\pm (0.3+5\%Ai)$	20	-5V/0V	2*0.8*0.1
NDAC05026*	DC-6	6	0.5	3	1.4	$\pm (0.3+5\%Ai)$	20	0/-5V	3.25*1.2*0.1
NDAC05027*	DC-6	7	0.5	4	1.4	$\pm (0.2+6\%Ai)$	20	0/-5V	4.32*1.2*0.1
NDAC05028*	DC-6.5	5	0.5	2	1.3	$\pm (0.2+5\%Ai)$	20	0/-5V	2.33*1.2*0.1
NDAC05029*	DC-8	6	0.3	2.5	1.4	$\pm (0.2+5\%Ai)$	20	0/-5V	2.35*1.2*0.1
NDAC05030*	DC-12	6	0.25	2.5	1.3	$\pm (0.2+5\%Ai)$	20	0/-5V	2.33*1.13*0.1
NDAC05031*	DC-18	1	20	2	1.4	± 1.5	20	0/-5V	1.4*1.2*0.1
NDAC05032*	DC-18	6	0.5	4	1.3	$\pm (0.3+5\%Ai)$	20	0/-5V	2.6*1.0*0.1
NDAC05033*	DC-20	3	0.25	0.4	1.4	± 0.2	20	0/-5V	1.35*0.97*0.1
NDAC05034*	DC-20	1	32	2	1.4	± 1.5	20	0/-5V	1.2*1.1*0.1
NDAC05010	2-6.5	5	0.5	2	1.3	$\pm (0.2+5\%Ai)$	20	0/-5V	2.35*1.2*0.1
NDAC05035*	2-6.5	6	0.5	3	1.4	$\pm (0.3+5\%Ai)$	20	0/-5V	3.25*1.2*0.1
NDAC05036*	5-6	5	0.5	2	1.3	$\pm (0.3+3\%Ai)$	20	0/-5V	2.33*1.2*0.1
NDAC05037*	5-6	6	0.5	2.5	1.3	$\pm (0.3+5\%Ai)$	20	0/-5V	3.25*1.2*0.1
NDAC05038*	5-6	6	0.5	1.8	1.4	$\pm (0.3+4\%Ai)$	20	0/-5V	3.25*1*0.1
NDAC05012	6-18	3	5	2.6	1.3	$\pm (0.3+5\%Ai)$	20	0/-5V	2.8*0.8*0.1
NDAC05013	6-18	5	0.5	3.8	1.4	$\pm (0.3+5\%Ai)$	20	0/-5V	2.35*1.25*0.1
NDAC05014	6-18	6	0.5	5	1.5	$\pm (0.3+8\%Ai)$	20	0/-5V	3.25*1.2*0.1
NDAC05039*	6-18	6	0.5	4.5	1.4	$\pm (0.3+5\%Ai)$	20	0/-5V	3.26*1.04*0.1
NDAC05040*	6-18	5	0.5	3.2	1.4	$\pm (0.3+8\%Ai)$	20	0/-5V	2.33*1.2*0.1
NDAC05041*	6-18	5	0.5	3.2	1.4	$\pm (0.3+6\%Ai)$	20	0/-5V	2.33*1.2*0.1

*: New Product Released from Dec.2014 until Sep.2015.

Part Number	Frequency (GHz)	Bits	LSB (dB)	IL (dB)	VSWR	Attenuation Accuracy	Ton/Toff (ns)	Control Input Voltage	Chip Size (mm)
NDAC05011	8-12	6	0.5	3.5	1.4	± (0.3+5%Ai)	20	0/-5V	3.25*1.25*0.1
NDAC05042*	8-12	6	0.5	3.5	1.4	± (0.3+5%Ai)	20	0/-5V	3.25*1.2*0.1
NDAC05043*	9-10	5	0.5	2.5	1.3	± (0.3+5%Ai)	20	0/-5V	2.33*1.2*0.1
NDAC05044*	9-10	6	0.5	3.2	1.3	± (0.3+5%Ai)	20	0/-5V	3.25*1.2*0.1
NDAC05015	14-18	6	0.5	4.5	1.4	± (0.3+5%Ai)	20	0/-5V	3*1.25*0.1
NDAC05016	17-23	5	0.5	2.5	1.5	± (0.3+5%Ai)	20	0/-5V	1.35*1.08*0.1
NDAC05017	19-23	6	0.5	2	1.6	± (0.3+5%Ai)	20	0/-5V	3.25*1*0.1
NDAC05018	20-30	6	0.5	2.5	1.6	± (0.3+7%Ai)	20	0/-5V	3.25*1*0.1
NDAC05019	20-40	3	0.4	1.8	1.4	± (0.2+5%Ai)	20	0/-5V	0.85*0.75*0.1
NDAC05020	20-40	5	0.5	1.8	1.4	± (0.3+7%Ai)	20	0/-5V	2.35*1*0.1
NDAC05045*	20-30	6	0.5	3	1.5	± (0.3+7%Ai)	20	0/-5V	2.75*1*0.1
NDAC05046*	20-40	3	0.4	1.8	1.4	± (0.2+5%Ai)	20	0/-5V	0.85*1.1*0.1
NDAC05047*	25-40	4	0.5	2.5	1.5	± (0.2+7%Ai)	20	0/-5V	1.38*1.06*0.1
NDAC05021	30-40	5	0.5	2	1.5	± (0.2+7%Ai)	20	0/-5V	2.35*1*0.1
NDAC05048*	32-40	6	0.5	4.5	1.5	± (0.3+8%Ai)	20	0/-5V	3*1*0.1
NDAC05049*	34-36	6	0.5	3	1.5	± (0.3+8%Ai)	20	0/-5V	3.25*1*0.1
NDAC05050*	42-46	5	0.5	2.6	1.4	± (0.2+5%Ai)	20	0/-5V	2.05*0.8*0.1

TTL Drive Attenuator

Part Number	Frequency (GHz)	Bits	LSB (dB)	IL (dB)	VSWR	Attenuation Accuracy	Ton/Toff (ns)	Control Input Voltage	Chip Size (mm)
NDAC05022	DC-20	5	0.5	2.5	1.3	± (0.3+5%Ai)	20	TTL	2.0*1.15*0.1
NDAC05023	DC-18	6	0.5	4.5	1.4	± (0.3+5%Ai)	20	TTL	2.6*1.35*0.1
NDAC05024	DC-40	3	5	6	1.4	± (0.3+10%Ai)	20	TTL	2.2*1.1*0.1
NDAC05051*	DC-12	4	0.25	0.8	1.3	±0.2	20	TTL	1.4*1.2*0.1
NDAC05052*	DC-12	4	0.25	0.7	1.3	±0.2	20	TTL	1.4*1.2*0.1
NDAC05053*	DC-18	6	0.5	4	1.3	± (0.3+5%Ai)	20	TTL	2.6*1.35*0.1
NDAC05054*	42-46	5	0.5	2.6	1.4	± (0.2+5%Ai)	20	TTL	2.05*1.0*0.1

*: New Product Released from Dec.2014 until Sep.2015.

Analog Attenuator

Part Number	Part Number (Inland)	Function	Frequency (GHz)	IL (dB)	Attenuation Range (dB)	VSWR	Control Input Voltage	Chip Size (mm)
NDAC07001	WSDA000200-32	Analog	DC-20	1.8	0-32	1.6	0~-3V	0.85*0.85*0.1
NDAC07002	WSDA000400-30	Analog	DC-40	2.0	0-30	1.5	0~-5V	0.91*0.85*0.1

Temperature Compensation Attenuator

Part Number	Frequency (GHz)	IL (dB)	VSWR	Compensated Attenuation range (dB)	Control Input Voltage	Chip Size (mm)
NDAC06001	DC-40	3	1.5	3	-5V	0.8*0.85*0.1

Si Control Driver

Part Number	Function	Highest Frequency (MHz)	Bit	Power Supply	Input level	Outout level	Chip Size (mm)
NDSC01001	GaN Power Switch Driver, Si Substrated	10	1	+5/-5	-0.5-5.5V	-40-0V	0.8*1.4*0.35

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GaAs FET Switch

Standard Fet Switch

Part Number	Function	Frequency (GHz)	IL (dB)	Isolation (dB)	VSWR	Ton-off (ns)	Control Input Voltage	Chip Size (mm)
NDAC08001	SPDT, Reflective	DC-4	0.5	35	1.2	10	0/-5V or 5V/0V	0.7*0.7*0.1
NDAC08002	SPDT, Non-Reflective	DC-4	0.8	55	1.3	10	0/-5V	1.35*1.2*0.1
NDAC08003	SP3T, Reflective	DC-6	0.9	40	1.3	10	0/-5V	1.9*1.6*0.1
NDAC08004	SP3T, Non-reflective	DC-6	1.5	45	1.3	10	0/-5V	1.9*1.6*0.1
NDAC08005	SPST, Non-reflective	DC-6.5	0.8	40	1.3	10	0/-5V	1.15*0.9*0.1
NDAC08006	SPDT, Reflective	DC-10	1	50	1.3	10	0/-5V	1.45*1.44*0.1
NDAC08007	SPDT, Reflective	DC-11	0.8	32	1.2	10	0/-5V	0.96*0.7*0.1
NDAC08008	SPST, Non-reflective	DC-20	2	50	1.4	10	0/-5V	1.2*0.96*0.08
NDAC08009	SPDT, Reflective	DC-20	1.2	40	1.3	10	0/-5V	1.05*1*0.1
NDAC08021	SPST, Reflective, -5V Power Supply	DC-40	1.4dB@20GHz	40 dB@40GHz	1.3	10	TTL	1.57*0.8*0.1
NDAC08022	SPDT, Reflective, -5V Power Supply	DC-40	2.5 dB@30GHz	40dB@30GHz	1.3	10	TTL	1.3*1*0.1
NDAC08023*	SP4T	DC-4	1	50	1.3	10	0/-5V	1.5*1.5*0.1
NDAC08024*	SP6T	DC-4	1.3	40	1.4	10	0/-5V	1.5*2.15*0.1
NDAC08025*	SP3T	DC-6	1.5	45	1.3	10	0/-5V	1.92*1.57*0.1
NDAC08026*	SPDT	DC-12	0.7	38	1.3	10	0/-5V or 5V/0V	0.8*0.75*0.1
NDAC08014	SPDT, Reflective	0.1-18	2	40	1.3	10	0/-5V	1.1*1.4*0.1
NDAC08015	SPDT, Non-reflective	0.1-18	2.3	40	1.3	10	0/-5V	1.1*1.4*0.1
NDAC08027*	SPDT	2-6	1.5	45	1.3	10	0/-5V	1.11*1.44*0.1
NDAC08028*	SPDT	2-6.5	1.5	45	1.5	10	0/-5V	1.11*1.44*0.1
NDAC08029*	SP3T	5-6	0.8/1.8	45	1.2	15	0/-5V	2*2*0.1
NDAC08030*	SP3T	5-6	0.8/1.8	50	1.3	20	0/-5V	2*2*0.1
NDAC08016	SP3T, Reflective	6-18	2/3.3	40	1.3	10	0/-5V	1.9*1.6*0.1
NDAC08031*	SP3T	6-18	3	40	1.3	10	0/-5V	1.9*1.52*0.1
NDAC08010	SP3T, Reflective	8-12	2	40	1.3	10	0/-5V	1.9*1.5*0.1
NDAC08011	SP3T, Non-reflective	8-12	2	40	1.3	10	0/-5V	1.9*1.6*0.1
NDAC08012	SP3T, Reflective	8-12	1.5/2.5	40	1.3	10	0/-5V	1.9*1.6*0.1

*: New Product Released from Dec.2014 until Sep.2015.

Part Number	Function	Frequency (GHz)	IL (dB)	Isolation (dB)	VSWR	Ton-off (ns)	Control Input Voltage	Chip Size (mm)
NDAC08013	SP3T, Reflective	8-12	1.5/2.5	40	1.3	10	0/-5V	1.92*1.57*0.1
NDAC08032*	SPDT	8-12	1.6	40	1.3	10	0/-5V	1.11*1.44*0.1
NDAC08033*	SP3T	8-12	1.5/2.5	43	1.3	10	0/-5V	1.92*1.57*0.1
NDAC08034*	SP3T	9-10	1.8	40	1.3	10	0/-5V	1.9*1.52*0.1
NDAC08017	SP3T, Reflective	14-18	1.5/2.7	35	1.3	10	0/-5V	1.45*1.38*0.1
NDAC08035*	SPDT	17-23	0.8	28	1.3	10	0/-5V	1.8*0.8*0.08
NDAC08036*	SPDT	18-23	2.2	35	1.7	10	0/-5V	1.1*0.8*0.1
NDAC08018	SPST, Non-reflective	20-40	0.8	25	1.5	10	0/-5V	1.2*1.0*0.1
NDAC08037*	SPDT	23-32	1	22	1.3	10	0/-5V	1.55*0.8*0.08
NDAC08038*	SPDT	25-30	0.8	23	1.3	10	0/-5V	1.55*0.8*0.08
NDAC08039*	SPDT	25-35	2	35	1.5	10	0/-5V	1.51*1.2*0.1
NDAC08040*	SPDT	29-40	1.8	30	1.5	10	0/-5V	1.2*1.2*0.1
NDAC08041*	SPDT	30-40	0.8	24	1.3	10	0/-5V	1.55*0.8*0.08
NDAC08042*	SPDT	35-50	1.3	20	1.5	10	0/-5V	0.8*1.4*0.08

TTL Drive Switch

Part Number	Function	Frequency (GHz)	IL (dB)	Isolation (dB)	VSWR	Ton-off (ns)	Control Input Voltage	Chip Size (mm)
NDAC08043*	SPDT	DC-4	0.9	55	1.3	10	TTL	1.05*0.9*0.1
NDAC08044*	SP4T	DC-4	1	50	1.3	10	TTL	1.5*1.6*0.1
NDAC08045*	SP6T	DC-4	1.3	40	1.4	10	TTL	1.6*2.15*0.1
NDAC08019	SP3T, Reflective, -5V power supply	DC-18	1.7	55	1.3	10	TTL	1.55*1.5*0.1
NDAC08020	SP3T, Reflective, -5V Power Supply	DC-18	1.2/2.5	50	1.2	10	TTL	1.55*1.5*0.1
NDAC08046*	SPDT	DC-20	1.5	40	1.3	20	TTL	1*1*0.08
NDAC08047*	SPDT	0.2-4	0.8	70	1.3	50	TTL	1.8*1.7*0.1
NDAC08048*	SPDT	17-23	0.8	28	1.3	10	TTL	1.8*1*0.08
NDAC08049*	SPDT	25-32	1	22	1.3	10	TTL	1*1.55*0.08
NDAC08050*	SPDT	30-40	0.8	24	1.3	10	TTL	1*1.55*0.08
NDAC08051*	SPDT	35-50	1.3	20	1.5	10	TTL	1*1.4*0.08
NDAC08052*	SPDT	50-60	1.5	20	1.5	10	TTL	1.3*1.2*0.08

*: New Product Released from Dec.2014 until Sep.2015.

GaAs Frequency Mixer

Part Number	RF Frequency (GHz)	IF Frequency (GHz)	conversion Gain (dB)	LO/RF Isolation (dB)	Chip Size (mm)
NDAC09001	0.5-1.5	DC-0.2	-9	40	3.71*2.1*0.1
NDAC09002	1.0-3.0	DC-1.3	-7	30	1.9*3.5*0.08
NDAC09003	1.6-4.9	DC-2.4	-7	30	1.9*2.5*0.08
NDAC09004	1.8-5	DC-2	-7	40	1.99*1.5*0.1
NDAC09005	2.0-6.0	DC-3.0	-7.5	20	1.4*2.3*0.08
NDAC09006	2.5-6	0.1-1.5	-8	30	1.88*1.64*0.1
NDAC09007	3.6-8.0	DC-2.5	-8	35	2.4*1.8*0.08
NDAC09008	4-10	DC-3.0	-7	40	1.4*0.81*0.1
NDAC09009	3.5-10.5	DC-4.2	-7	40	1*1.7*0.08
NDAC09010	4.1-13.6	DC-6.0	-7	30	1.1*1.4*0.08
NDAC09011	0.5-18	0.8-10.0	0	20	2.1*1.51*0.1
NDAC09012	6-18	DC-7.0	-8	30	1.3*0.8*0.08
NDAC09013	6-18	DC-3.0	-7	35	1.5*1.2*0.1
NDAC09014	9.0-23.0	DC-9.0	-8	30	1*0.8*0.08
NDAC09015	19.0-40.0	DC-20.0	-9	30	1*0.8*0.08

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GaAs Limiter

Part Number	Frequency (GHz)	IL (dB)	VSWR	Limit Power (dBm)	MAX Input Power (W)	Chip Size (mm)
NDAC12002	1-4	0.3	1.3	17	10	1.7*0.72*0.1
NDAC12003	2-6	0.4	1.4	16	10	2*0.78*0.1
NDAC12013	2-20	1	1.6	16	3	1.8*0.78*0.1
NDAC12001	2.7-3.5	0.4	1.3	13.5	20	2.62*1.83*0.1
NDAC12004	5-6	0.4	1.3	15	12	1.7*1.2*0.1
NDAC12005	5-6	0.5	1.6	14.5	20	2.6*1.5*0.1
NDAC12011	6-18	0.8	1.5	14	6 (Pulse)	1.8*0.78*0.1
NDAC12016*	6-18	0.6	1.5	21	4	1.2*0.7*0.1
NDAC12017*	6-18	0.4	1.5	22	6	1.2*0.7*0.1
NDAC12018*	6-18	0.6	1.8	15	6	1.2*0.7*0.1
NDAC12007	8-12	0.4	1.4	15	10	1.7*0.78*0.1
NDAC12008	8-12	0.5	1.4	15	10	1.66*0.74*0.1
NDAC12009	8-12	0.35	1.3	17	8	1.5*0.7*0.1
NDAC12010	8-12	0.4	1.3	17.5	10	1.5*0.7*0.1
NDAC12015	8-40	1.6	2.4	20	2.5	1*0.8*0.1
NDAC12019*	8-12	0.55	1.5	20	30	1.4*1.45*0.1
NDAC12020*	8-12	0.55	1.5	20	40	1.4*1.45*0.1
NDAC12006	8.5-10.5	0.3	1.2	15	3	1.5*0.7*0.1
NDAC12021*	8.5-10.5	0.3	1.2	15	3	1.5*0.7*0.1
NDAC12022*	10-18	0.8	1.8	20	20	1.4*1.45*0.1
NDAC12012	15-18	0.8	1.5	13	10	1.8*0.78*0.1
NDAC12014	34-36	1.5	1.6	15	2.5	2.1*1.3*0.1

*: New Product Released from Dec.2014 until Sep.2015.

GaAs PIN Switch

Part Number	Function	Frequency (GHz)	IL (dB)	Isolation (dB)	VSWR	Input P-1 (dBm)	Ton-off (ns)	Control Input Voltage or Current	Chip Size (mm)
NDAC13001	SPDT, GaAs PIN Switch, High Input Power	8.5-10.5	0.8	35	1.3	40	150	30mA/-30mA	3*1.5*0.1
NDAC13002	SP3T, GaAs PIN Switch	6-18	1.4	25	1.4	23	20	20mA/-20mA	2*1.5*0.1
NDAC13003	SPDT, GaAs PIN Switch	22-36	1	22	1.4	33	50	5V/-12V	2.5*1.08*0.1
NDAC13004	SPDT, GaAs PIN Switch	34-36	1.1	34	1.5	34	50	5V/-12V	2*1.08*0.1
NDAC13005	SPDT, GaAs PIN Switch	34-37	1	23	1.3	33	50	3V/-12V	2*1*0.1
NDAC13006	SPST, GaAs PIN Switch	20-38	1.2	30	1.5	30	20	5V/-12V	1.22*0.67*0.1
NDAC13007	SPST, GaAs PIN Switch	28-38	0.8	35	1.5	30	20	5V/-12V	0.67*0.78*0.1

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GaN Transistor

Part Number	Frequency (GHz)	Psat (W)	Power Gain (dB)	PAE (%)	Bias Voltage (V)	Package Type	Match Type
NDNM01002	0.8-2	10	10	50	28	JF04F002	Internally Matched
NDNM01003	0.8-2	50	10	46	28	C164-2	Internally Matched
NDNM01004	0.8-2	80	10	45	28	JY02F008	Pre-matched
NDNM01030*	1.2	80	14	65	28	JY02F005	Pre-Matched
NDNM01007	1.2-1.3	250	13	60	28	JY02F008	Pre-matched
NDNM01006	1.2-1.4	120	13	55	28	C164-1	Internally Matched
NDNM01008	2.3-2.5	100	12	58	28	C164-2	Internally Matched
NDNM01031*	2.7-3.0	200	12	57	32	C164-1	Internally Matched
NDNM01010	2.7-3.5	40	10	45	28	C164-2	Internally Matched
NDNM01011	2.7-3.5	80	9	45	28	C164-2	Internally Matched
NDNM01012	2.7-3.5	150	10	45	32	JY02F008	Internally Matched
NDNM01013	3.1-3.4	80	9	56	32	C164-2	Internally Matched
NDNM01032*	3.1-3.4	100	11	50	28	C164-1	Internally Matched
NDNM01033*	3.1-3.4	200	11	55	28	C164-2	Internally Matched
NDNM01034*	3.1-3.4	300	11	55	36	C164-1	Internally Matched
NDNM01014	4.4-5.0	120	12	50	28	C164-1	Internally Matched
NDNM01015	4.4-5.0	180	12	50	28	C164-1	Internally Matched
NDNM01035*	4.4-5.0	30	11	55	28	C164-1	Internally Matched
NDNM01036*	4.4-5.0	60	11	52	28	C164-1	Internally Matched
NDNM01016	5.3-5.9	60	11	45	28	C164-1	Internally Matched
NDNM01017	5.3-5.9	120	10	45	28	C164-1	Internally Matched
NDNM01037*	5.3-5.9	200	10	50	28	C164-1	Internally Matched
NDNM01038*	6.4-7.2	80	9	50	28	C164-1	Internally Matched
NDNM01039*	6.4-7.2	150	9	48	28	C164-1	Internally Matched
NDNM01018	7.7-8.5	120	7	37	28	C164-1	Internally Matched
NDNM01040*	7.7-8.5	60	8	40	28	C164-1	Internally Matched
NDNM01023	8.5-9.6	50	7	35	28	C129	Internally Matched
NDNM01041*	8.5-9.6	150	8	37	32	C164-1	Internally Matched
NDNM01019	8.8-9.6	100	6.5	30	28	C164-1	Internally Matched
NDNM01020	9.0-10.0	50	7	36	28	C129	Internally Matched
NDNM01021	9.0-10.0	100	7	37	28	C164-1	Internally Matched
NDNM01042*	9.5-10.5	100	8	35	32	C164-1	Internally Matched
NDNM01043*	9.5-10.5	150	8	33	32	C164-1	Internally Matched
NDNM01044*	11.2-11.8	200	7	33	32	C164-1	Internally Matched
NDNM01045*	11.8-12.2	60	7	33	32	C129	Internally Matched
NDNM01046*	11.8-12.2	200	6	30	32	C164-1	Internally Matched

*: New Product Released from Dec.2014 until Sep.2015.

GaN Power Amplifier Module

Part Number	Frequency (GHz)	Psat (W)	Power Gain (dB)	PAE (%)	Bias Voltage (V)	Package Type
NDNM02001	0.8-2	10	28	35	28	JF04F002
NDNM02020*	0.8-2	50	10	50	28	C164-2
NDNM02021*	0.8-2	6	30	50	28	JF04F002
NDNM02022*	1.2-1.4	20	20	50	28	C164-2
NDNM02023*	1.2-1.4	50	20	50	28	JF04F002
NDNM02004	2.0-6.0	20	21	30	28	JF06F007
NDNM02024*	2.2-2.3	8	15	55	28	JF04F002
NDNM02025*	2.7-3.0	16	25	55	28	JF04F002
NDNM02026*	2.7-3.0	180	42	58	28	JF05F007A
NDNM02002	2.7-3.5	10	24	40	28	JF04F002
NDNM02030*	2.7-3.5	20	25	50	28	JF04F002
NDNM02031*	2.7-3.5	20	23	50	48	JF04F002
NDNM02032*	2.7-3.5	40	10	50	28	C164-2
NDNM02033*	2.7-3.5	60	21	50	28	C164-2
NDNM02034*	2.7-3.5	80	9	50	28	C164-2
NDNM02035*	2.7-3.5	150	10	50	32	C164-2
NDNM02027*	3.1-3.4	80	10	56	32	C164-2
NDNM02028*	3.1-3.4	100	45	52	28	JY05F008A
NDNM02029*	3.1-3.4	180	47	55	32	JF05F009A
NDNM02006	5.0-6.0	60	20	40	28	JF06F007
NDNM02037*	5-6	80	26	40	28	13mm*12mm*1mm Plate
NDNM02036*	6.4-7.2	10	20	40	28	JF04F002
NDNM02009	8-12	25	21	35	28	JF06F007
NDNM02038*	8-12	10	20	30	28	JF06F007
NDNM02039*	8.5-10.5	40	46	35	28	SMA-1
NDNM02007	9.0-10.0	30	22	35	28	JF06F007
NDNM02040*	15-17	15	21	33	28	JF06F007
NDNM02041*	15-17	40	36	35	28	SMA-1

*: New Product Released from Dec.2014 until Sep.2015.

GaAs Inter-matched Transistor

Part Number	Frequency (GHz)	Gain (dB)	Psat (W)	PAE (%)	Voltage (V)	Dynamic Current (A)	Output Mismatch Stress	Package Size (mm)	Package Type
NDAM01001	2.2-2.3	13	25	43	10	6	3:1	24*17.4*5.5	C164-1
NDAM01002	2.5-2.7	11	25	42	10	6	3:1	24*17.4*5.5	C164-1
NDAM01003	4.4-5.0	10	25	42	10	6	3:1	24*17.4*5.5	C164-1
NDAM01004	4.4-5.0	10	50	41	10	11	3:1	24*17.4*5.5	C164-1
NDAM01005	4.4-5.0	9	60	41	10	14	3:1	24*17.4*5.5	C164-1
NDAM01006	5.0-5.3	10	25	38	10	6	3:1	24*17.4*5.5	C164-1
NDAM01007	5.0-5.3	10	50	42	10	11	3:1	24*17.4*5.5	C164-1
NDAM01008	5.3-5.9	9	8	36	10	2	3:1	21*13*5	C129
NDAM01009	5.3-5.9	9	12	36	10	3.2	3:1	24*17.4*5.5	C164-1
NDAM01010	5.3-5.9	9	16	36	10	3.8	3:1	24*17.4*5.5	C164-1
NDAM01011	5.3-5.9	9	25	39	10	6	3:1	24*17.4*5.5	C164-1
NDAM01012	5.3-5.9	9	45	42	10	10	3:1	24*17.4*5.5	C164-1
NDAM01013	5.3-5.9	8	60	41	10	14	3:1	24*17.4*5.5	C164-1
NDAM01014	5.9-6.4	8	25	37	10	6	3:1	24*17.4*5.5	C164-1
NDAM01015	5.9-6.4	8	50	37	10	11	3:1	24*17.4*5.5	C164-1
NDAM01016	6.4-7.2	7	25	37	10	6	3:1	24*17.4*5.5	C164-1
NDAM01017	6.4-7.2	7	50	33	10	11	3:1	24*17.4*5.5	C164-1
NDAM01040*	7.0-7.5	8	25	33	10	6	3:1	17.4*24*6	C164-1
NDAM01041*	7.0-7.5	8	50	33	10	11	3:1	17.4*24*6	C164-1
NDAM01042*	7.0-7.5	8	63	35	10	14	3:1	17.4*24*6	C164-1
NDAM01018	7.7-8.5	8	6	38	10	1.3	3:1	21*13*5	C129
NDAM01019	7.7-8.5	8	20	40	10	4	3:1	24*17.4*5.5	C164-1
NDAM01029	7.7-8.5	7	60	37	8.5	15	3:1	24*17.4*5.5	C164-1
NDAM01020	8.5-9.6	7	8	30	10	2.5	3:1	21*13*5	C129
NDAM01021	8.5-9.6	7	30	30	10	6	3:1	24*17.4*5.5	C164-1
NDAM01022	8.5-9.6	8	40	36	10	11	3:1	24*17.4*5.5	C164-1
NDAM01043*	8.5-9.6	7	12	30	10	4	3:1	12.9*21*6	C129
NDAM01044*	8.5-9.6	7	16	30	10	5.5	3:1	17.4*24*6	C164-1
NDAM01045*	8.5-9.6	7	25	30	10	8	3:1	17.4*24*6	C164-1
NDAM01023	8.8-10	7	30	37	10	7	3:1	24*17.4*5.5	C164-1
NDAM01024	8.8-10	6	40	32	10	11	3:1	24*17.4*5.5	C164-1

*: New Product Released from Dec.2014 until Sep.2015.

Part Number	Frequency (GHz)	Gain (dB)	Psat (W)	PAE (%)	Voltage (V)	Dynamic Current (A)	Output Mismatch Stress	Package Size (mm)	Package Type
NDAM01027	8.8-10.2	6	30	30	10	11	3:1	24*17.4*5.5	C164-1
NDAM01025	9-10	7	8	30	10	2.5	3:1	21*13*5	C129
NDAM01026	9-10	8	40	36	8.5	10.5	3:1	24*17.4*5.5	C164-1
NDAM01046*	9-10	6	12	30	10	3.2	3:1	12.9*21*6	C129
NDAM01047*	9-10	7	16	30	10	5.5	3:1	17.4*24*6	C164-1
NDAM01048*	9-10	7	25	30	10	8	3:1	17.4*24*6	C164-1
NDAM01028	9.5-10.5	5	25	30	10	11	3:1	24*17.4*5.5	C164-1
NDAM01049*	9.5-10.5	7	4	30	10	1.2	3:1	12.9*21*6	C129
NDAM01050*	9.5-10.5	7	8	30	10	2.5	3:1	12.9*21*6	C129
NDAM01051*	14-14.5	5	20	23	10	5	3:1	17.4*24*6	C164-1

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*: New Product Released from Dec.2014 until Sep.2015.

GaAs Power Amplifier Module

Part Number	Frequency (GHz)	Power Gain (dB)	Psat (dBm)	Voltage (V)	PAE (%)	Package Size (mm)	Package Type
NDAM02030*	1.2-1.3	30	35	10	25	21*13*5.5	JF04F002
NDAM02031*	1.2-1.4	30	38	10	25	21*13*5.5	JF04F002
NDAM02032*	1.2-1.5	28	35	10	25	21*13*5.5	JF04F002
NDAM02004	1.6-1.8	28	35	10	35	13*21*5.0	JF04F002
NDAM02033*	1.6-1.8	28	35	10	35	21*13*5.5	JF04F002
NDAM02014	2-6	32	38	9	25	28.6*23*8	SMA-1
NDAM02015	2-6	40	40	9	25	28.6*23*8	SMA-1
NDAM02048*	2-6	32	37	9	25	28.6*23*8	SMA-1
NDAM02049*	2-6	40	42	9	13	80*40*12	Metal package
NDAM02050*	2-12	18	30	8.5	25	20*16*6	Metal package
NDAM02006	2.2-2.3	30	37	10	35	13*21*5.0	JF04F002
NDAM02034*	2.2-2.3	30	30	10	35	21*13*5.5	JF04F002
NDAM02035*	2.2-2.3	30	33	10	35	21*13*5.5	JF04F002
NDAM02036*	2.2-2.3	30	37	10	35	21*13*5.5	JF04F002
NDAM02037*	2.2-2.3	30	40	10	35	21.7*24.2*4.8	JF04F007
NDAM02038*	2.2-2.3	30	42	10.5	35	21.7*24.2*4.8	JF04F007
NDAM02008	2.3-2.5	32	37	10	40	13*21*5.0	JF04F002
NDAM02039*	2.3-2.5	30	37	10	40	21*13*5.5	JF04F002
NDAM02009	2.7-3.5	30	37	8 (Pulse)	25	13*21*5.0	JF04F002
NDAM02010	2.7-3.5	25	41	8.5	25	13*21*5.0	JF04F002
NDAM02040*	2.7-3.5	32	37	8.5	25	21*13*5.5	JF04F002
NDAM02041*	3.1-3.4	34	39	10	30	21*13*5.5	JF04F002
NDAM02013	5-6	25	40	10	30	13*21*5.0	JF04F002
NDAM02011	5.2-5.6	23	44	9	40	13*12*1	CP-1
NDAM02051*	5.2-5.6	24	41	9	43	18.03*8.7*2.24	JF06F007
NDAM02042*	5.3-5.9	25	33	10	30	21*13*5.5	JF04F002
NDAM02043*	5.5-6	27	39	8	30	21*13*5.5	JF04F002
NDAM02023	6-18	32	39	8	15	53.6*39*8	SMA-3
NDAM02052*	6-18	33	36	8	25	28.6*23*8	SMA-1
NDAM02053*	6-18	34	37	8	25	28.6*23*8	SMA-1
NDAM02054*	7.7-8.5	25	41	9	40	18.03*8.7*2.24	JF06F007
NDAM02017	8-12	35	41	8	30	28.6*23*8	SMA-1

*: New Product Released from Dec.2014 until Sep.2015.

Part Number	Frequency (GHz)	Power Gain (dB)	Psat (dBm)	Voltage (V)	PAE (%)	Package Size (mm)	Package Type
NDAM02018	8-12	36	42	8	25	28.6*23*8	SMA-1
NDAM02057*	8-12	23	33	8	30	17.78*8.33*2.5	JY06F001
NDAM02058*	8-12	35	40	8	30	28.6*23*8	SMA-1
NDAM02016	8.5-10.5	35	41	8	35	28.6*23*8	SMA-1
NDAM02055*	8.5-10.5	25	37	7	30	28.6*23*8	JF06F007
NDAM02056*	8.5-10.5	40	42.5	8	30	28.6*23*8	SMA-1
NDAM02044*	11-11.5	10	31	10	25	13*21*5	JF04F002
NDAM02045*	11-11.5	12	29	10	25	21*13*5.5	JF04F002
NDAM02046*	11.8-12.2	18	35	10	25	13*21*5	JF04F002
NDAM02019	13-14.5	24	40	8	35	18.03*8.7*2.24	JF06F007
NDAM02047*	13.8-14.2	15	32	10	25	13*21*5	JF04F002
NDAM02021	14.5-17	20	42.5	8	30	28.6*23*8	SMA-2
NDAM02059*	14.5-17	25	35	8	35	18.03*8.7*2.24	JF06F007
NDAM02060*	14.5-17	22	40	8	35	18.03*8.7*2.24	JF06F007
NDAM02020	15-17	22	44	28	25	22*19*5	JF06F007
NDAM02024	25-27	18	38	6	/	18*14.6*3.7	SMA-4
NDAM02061*	25-27	36	36	6	28	32.4*24.2*7	Metal package
NDAM02062*	25-27	18	38	6	25	18*14.6*3.2	Metal package
NDAM02063*	30-32	36	36	6	20	32.4*24.2*7	Metal package
NDAM02064*	30-32	18	38	6	18	18*14.6*3.2	Metal package
NDAM02025	31-32	18	38	6	18	18*14.6*3.2	SMA-4
NDAM02065*	34-36	36	36	6	20	32.4*24.2*7	Metal package
NDAM02066*	34-36	18	38	6	18	18*14.6*3.2	Metal package

*: New Product Released from Dec.2014 until Sep.2015.

Digital Phase Shifter

Part Number	Frequency (GHz)	Bits	RMS Phase Error (°)	IL (dB)	Δ IL (dB)	VSWR	Control Input Voltage	Package Size (mm)	Package Type
NDAM03002	0.26-0.5	6	2	-7	± 0.6	1.4	TTL	15*9.4*2	JQ28-01H
NDAM03024*	0.26-0.46	6	5	-12	± 0.8	1.5	TTL	JQ28-01H	15*9.4*2
NDAM03025*	0.35-0.5	6	2	7	± 0.4	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03001	0.4-0.45	6	1.5	-7	± 0.4	1.4	TTL	15*9.4*2	JQ28-01H
NDAM03003	0.45-0.65	6	1.5	-7	± 0.4	1.4	TTL	15*9.4*2	JQ28-01H
NDAM03026*	0.45-0.65	6	1.5	8	± 0.4	1.4	TTL	JQ28-01H	15*9.4*2
NDAM03004	0.8-1.7	6	4	-7	± 0.5	1.4	TTL	15*9.4*2	JQ28-01H
NDAM03020	0.8-1.7	6	4	-10	± 0.8	1.5	TTL	15*9.4*2	JC28F002
NDAM03027*	0.8-2.4	6	3	12	± 1	1.5	TTL	Mental-Ceramic	15*9.4*2
NDAM03005	0.9-1.5	6	1	-5	± 0.3	1.3	TTL	15*9.4*2	JQ28-01H
NDAM03021	0.9-1.5	6	1.5	-6	± 0.3	1.4	TTL	7.1*6*1.5	JC20F002
NDAM03028*	0.9-1.3	6	1	5	± 0.3	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03029*	0.9-1.3	6	1	6.5	± 0.3	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03030*	0.9-1.3	6	1	6	± 0.3	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03031*	1.0-1.5	6	1.5	5.5	± 0.3	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03007	1.1-1.7	6	1.5	-5	± 0.3	1.3	TTL	15*9.4*2	JQ28-01H
NDAM03032*	1.1-1.7	6	1	5.5	± 0.3	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03006	1.2-1.4	6	1	-4.8	± 0.3	1.3	TTL	15*9.4*2	JQ28-01H
NDAM03033*	1.2-1.4	6	1	5.5	± 0.3	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03034*	1.22-1.44	6	1	-5.5	± 0.3	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03009	1.4-2.0	6	1.5	-5	± 0.3	1.3	TTL	15*9.4*2	JQ28-01H
NDAM03010	1.6-3.2	6	4	-8	± 0.5	1.3	TTL	15*9.4*2	JQ28-01H
NDAM03022	1.6-3.2	6	3	-10	± 0.8	1.8	TTL	15*9.4*2	JC28F002
NDAM03008	1.7-1.9	6	0.8	-5	± 0.2	1.3	TTL	15*9.4*2	JQ28-01H
NDAM03035*	1.7-1.9	6	0.8	5	± 0.2	1.3	TTL	JF14F002	16*16.6*4.2
NDAM03036*	1.7-1.9	6	0.8	5.5	± 0.2	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03011	2-2.5	6	0.8	-4.5	± 0.4	1.3	TTL	10*10*2	JQ17
NDAM03013	2-4	6	2	-10	± 0.5	1.5	TTL	16*16.6*4.2	JF14F002
NDAM03037*	2-2.5	6	0.8	4.5	± 0.3	1.3	TTL	Mental-Ceramic	8.6*8.6*2.1
NDAM03038*	2-2.5	6	0.8	5.5	± 0.4	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03039*	2-4	6	2	10	± 0.5	1.5	TTL	JF14F002	16*16.6*4.2

*: New Product Released from Dec.2014 until Sep.2015.

Part Number	Frequency (GHz)	Bits	RMS Phase Error (°)	IL (dB)	Δ IL (dB)	VSWR	Control Input Voltage	Package Size (mm)	Package Type
NDAM03040*	2-4	6	2	-14	± 0.6	1.3	TTL	JF14F002	16*16.6*4.2
NDAM03012	2.7-3.5	6	1	-5	± 0.3	1.3	TTL	10*10*2	JQ17
NDAM03041*	2.7-3	6	0.8	4.8	± 0.3	1.3	TTL	JQ17	10*10*2
NDAM03042*	2.7-3	6	0.8	5.5	± 0.3	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03043*	2.7-3.5	6	1	5.5	± 0.4	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03044*	3.1-3.4	6	0.8	5	± 0.3	1.3	TTL	JQ17	10*10*2
NDAM03045*	3.1-3.4	6	0.8	5	± 0.4	1.3	TTL	JQ28-01H	15*9.4*2
NDAM03014	5-6	6	1	-6	± 0.3	1.4	TTL	18*18*6.5	JW15F001
NDAM03019	6-18	6	4	-10	± 1	1.8	TTL	18*18*6.5	JW15F001
NDAM03015	7.9-9	6	1.5	-7	± 0.3	1.3	TTL	18*18*6.5	JW15F001
NDAM03046*	7.9-9	6	1.5	-7	± 0.3	1.3	TTL	JW15F001	18*18*6.5
NDAM03016	8-12	6	2.5	-8	± 0.5	1.4	TTL	18*18*6.5	JW15F001
NDAM03047*	8-12	6	2.5	8	± 0.5	1.4	TTL	Mental	22*16*6
NDAM03017	12-15	6	1	-8	± 0.4	1.4	TTL	18*18*6.5	JW15F001
NDAM03048*	12-15	6	1	8	± 0.4	1.4	TTL	Mental	18*20.2*5.5
NDAM03018	15-17.5	6	1	-8	± 0.4	1.4	TTL	18*18*6.5	JW15F001
NDAM03049*	15-17.5	6	1	8	± 0.4	1.4	TTL	Mental	18*20.2*5.5

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*: New Product Released from Dec.2014 until Sep.2015.

Digital Attenuator

Part Number	Frequency (GHz)	IL (dB)	VSWR	Bits	LSB (dB)	Attenuation Accuracy	Control Input Voltage	Package Size (mm)	Package Type
NDAM04001	DC-2.5	2.4	1.3	5	1	± (0.3+5%Ai)	TTL	10*10*2	JQ17
NDAM04002	DC-2.5	2.4	1.3	6	0.5	± (0.3+3%Ai)	TTL	10*10*2	JQ17
NDAM04003	DC-4	2	1.3	5	0.5	± (0.3+5%Ai)	TTL	10*10*2	JQ17
NDAM04005	DC-4	4.5	1.3	6	1	± (0.3+4%Ai)	TTL	15*9.4*2	JQ28
NDAM04006	DC-4	4.5	1.3	4	3	± (0.3+4%Ai)	TTL	15*9.4*2	JQ28
NDAM04013	DC-4	1.8	1.3	6	0.5	± (0.3+4%Ai)	TTL	5.08*5.08*1.5	JC12F003
NDAM04014	DC-4	1.6	1.3	1	20	±1	TTL	5*5*1.5	JC32F002
NDAM04015	DC-4	0.5	1.4	3	0.2	± (0.1+5%Ai)	TTL	5*5*1.5	JC32F002
NDAM04016	0.1-2.2	1.3	1.3	6	0.25	± (0.2+5%Ai)	TTL	4*4*2	JC20F003
NDAM04017	0.1-2.2	1.8	1.3	6	0.5	± (0.3+4%Ai)	TTL	4*4*2	JC20F003
NDAM04018	0.1-4	1.6	1.3	6	0.25	± (0.2+4%Ai)	TTL	4*4*2	JC20F003
NDAM04004	2-4	3	1.3	6	0.5	± (0.2+4%Ai)	TTL	10*10*2	JQ17
NDAM04019*	2.7-3.0	1.5	1.5	4	0.3	± (0.2+4%Ai)	TTL	10*10*2	JQ16-01
NDAM04020*	2.7-3.5	1.6	1.3	4	0.3	± (0.2+4%Ai)	TTL	10*10*2	JQ16-01
NDAM04021*	3.1-3.4	1	1.3	2	0.5	± (0.2+4%Ai)	TTL	10*10*2	JQ16-01
NDAM04022*	3.1-3.4	1	1.3	3	0.8	± (0.2+4%Ai)	TTL	10*10*2	JQ16-01
NDAM04023*	3.1-3.4	1.1	1.3	4	0.5	± (0.2+4%Ai)	TTL	10*10*2	JQ17
NDAM04024*	3.1-3.4	2.5	1.4	6	0.25	± (0.3+3%Ai)	TTL	10*10*2	JQ17
NDAM04007	5-6	3.5	1.4	6	0.5	± (0.2+5%Ai)	TTL	18*18*6.5	JW15F001
NDAM04011	5-6	4.4	1.3	6	1	± (0.4+5%Ai)	TTL	21*20.6*6.5	JW10F003
NDAM04008	8-12	4	1.4	6	0.5	± (0.3+5%Ai)	TTL	18*18*6.5	JW15F001
NDAM04009	8-12	3	1.3	6	0.25	± (0.3+5%Ai)	TTL	18*18*6.5	JW15F001
NDAM04010	8-12	3.5	1.4	4	3	± (0.3+5%Ai)	TTL	18*18*6.5	JW15F001
NDAM04012	8-12	5.5	1.4	6	1	± (0.3+5%Ai) (0-30dB); ± (0.3+7%Ai) (31-63dB)	TTL	21*20.6*6.5	JW10F003

*: New Product Released from Dec.2014 until Sep.2015.

GaAs FET Switch

Part Number	Function	Frequency (GHz)	IL (dB)	VSWR	Isolation (dB)	Ton-off (ns)	Control Input Voltage	Package Size (mm)	Package Type
NDAM05010*	SP4T	DC-2.5	1.4	1.5	40	10	TTL	10*10*2	JQ17
NDAM05011*	SP6T	DC-2.5	1.6	1.5	38	10	TTL	10*10*2	JQ20
NDAM05012*	SP3T	DC-3	1.1	1.3	40	10	TTL	10*10*2	JQ16-01
NDAM05003	SP3T,non-reflective, high isolation, $\pm 5V$ power supply	DC-3.4	1.3	1.2	55	10	TTL	10*10*2	JQ16
NDAM05001	SPDT,reflective, $\pm 5V$ power supply	DC-4	1	1.2	45	10	TTL	10*10*2	JQ17
NDAM05007	SPDT,non-reflective, -5V power supply	DC-4	1	1.3	45	50	TTL	5.08*5.08*1.5	JC12F003
NDAM05008	SPDT,non-reflective, +5V power supply	DC-4	1	1.3	45	100	TTL	5.08*5.08*1.5	JC12F003
NDAM05009	SPST,non-reflective, -5V power supply	DC-4	1	1.3	40	10	TTL	4*4*2	JC20F003
NDAM05002	SPST,non-reflective, $\pm 5V$ power supply	DC-6	1.1	1.4	40	10	TTL	10*10*2	JQ16
NDAM05013*	SP3T	1.2-1.4	1.2	1.3	50	10	TTL	10*10*2	JQ16-01
NDAM05014*	SP3T	1.2-1.4	1.1/1.8	1.3	50	10	TTL	10*10*2	JQ16-01
NDAM05015*	SP3T	3.0-3.4	1.2	1.3	40	10	TTL	10*10*2	JQ16-01
NDAM05016*	SPDT	3.1-3.4	1	1.3	35	10	(-5V/+5V)	10*10*2	JQ17

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RF Switch for Base Station and Terminal

Item No.	Frequency (GHz)	Type	IL (dB)	Isolation (dB)	IP/OP VSWR	IP3 (dBm)	P1dB (dBm)	Package Type
NDRC01001	0.5-2.5	SPST	0.8	47	1.5:1	40	28	SOIC-8
NDRC01002	DC-3.0	SPDT	0.3	27	1.2:1	50	32	SC70-6
NDRC01003	DC-2.5	SPDT	0.4	24	1.2:1	-	37	SOT-6
NDRC01004	DC-4.0	SPDT	0.9	40	1.3:1	38 (3V) 46 (5V)	21 (3V) 27 (5V)	MSOP-8
NDRC01005	DC-5.0	SPDT	0.9	65	1.3:1	52	30	QFN 4x4-16L
NDRC01006	DC-4.0	SPDT	0.9	50	1.3:1	38 (3V) 46 (5V)	21 (3V) 27 (5V)	MSOP-8EP
NDRC01007	DC-2.5	SP4T	0.4	2.7	1.2:1	55	37	QFN 3x3-16L
NDRC01008	DC-6.0	SP3T	0.6	27	1.2:1	50	29 (3.3V) 19 (1.8V)	QFN 1.5x1.5-8L
NDRC01009	DC-3.0	SP3T	0.45	27	1.2:1	60	33	QFN 2.5x2.5-12L
NDRC01010	DC-4.0	SPDT	0.3	25	1.2:1	46	21	QFN 1x1-6L
NDRC01011	DC-6.0	SPDT	0.3	25	1.2:1	50 (3V)	30	QFN 1x1-6L
NDRC01012	DC-2.5	SPDT	0.4	24	1.2:1		37	QFN 2x2-6L
NDRC01013	DC-3.0	SPDT	0.7	65	1.3:1	54	30	QFN 4x4-20L
NDRC01014	DC-6.0	SPDT	1.0	55	1.2:1	55	33	QFN 4x4-20L
NDRC01015	DC-5.0	SPDT	0.6	32	1.2:1	60	40	QFN 3x3-12L
NDRC01016	DC-6.0	SPDT	0.3	25	1.1:1	53	35	QFN 2x3-6L
NDRC01017	DC-6.0	SPDT	0.5	28	1.2:1	-	37	QFN 1.5x1.5-6L
NDRC01018	0.4-3.0	DP4T	0.4	27	1.2:1	45	20	QFN 1.1x1.5-10L

Gain Block Amplifier

Item No.	Frequency GHz	Gain (dB)	Noise Figure(dB)	Operating Voltage (V)	Operating Current (mA)	P1dB (dBm)	OIP3 (dBm)	Package Type
NDRC02001	DC-4.5	16.3	3.6	5	75	18.9	32	SOT89
NDRC02002	DC-3.5	19.6	3	5	80	19.5	32.5	SOT89
NDRC02003	DC-4.5	14	4	5	81	18	32	SOT89
NDRC02004	DC-4.0	18.5	4.8	5	48	12.9	25.4	SOT89
NDRC02005	0.05-0.85	15.5	3.3	5	95	19	40	SOT89
NDRC02006	0.05-0.85	23	3	5	98	21	40	SOT89
NDRC02007	0.4-3.5	21	4.5	5	125	28	44	SOT89
NDRC02008	0.05-1.0	17	2	8	125	26	43	SOT89

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Digital Control Attenuator

Item No.	Bits	Frequency (GHz)	IL (dB)	Max. Atten. (dB)	IP3 (dBm)	Stepping (dB)	Control Interface	Package Type
NDRC03001	6	DC-3.8	1.5	31.5	45	0.5	Parallel	QFN4x4-24L
NDRC03002	6	DC-1.2	1.3	31.5	54	0.5	Serial	QFN4x4-20L
NDRC03003	6	DC-5.0	1.2	31.5	58	0.5	Dual	QFN4x4-24L

Low Noise Amplifier

Item No.	Frequency (GHz)	Noise Figure (dB)	IP3 (dBm)	Gain (dB)	P1dB (dBm)	Package Type
NDRC04001	0.4-1.5	0.35	34	19.5	22	TSLP 2x2-8L
NDRC04002	1.5-2.5	0.48	35	18	21	TSLP 2x2-8L

Variable Gain Amplifier

Item No.	Bits	Frequency (GHz)	Gain (dB)	Gain Range (dB)	Atten. Accuracy (dBm)	IP3 (dBm)	NF (dB)	Package Type
NDRC05001	6	DC-1.0	42.5/36	31.5	0.5	40	4	LGA 5X5-32L
NDRC05002	6	1.8-2.4	33	31.5	0.5	43	3.5	LGA 6X6-28L
NDRC05003	6	DC-1.0	45/40	31.5	0.5	40	3	QFN 5X5-32L
NDRC05004	6	0.05-4	19.5/16.5	31.5	0.5	38	6	QFN 5X5-32L

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LNA Module

Item No.	Frequency (GHz)	Gain (dB)	NF (dB)	IL (dB)	Isolation (dB)	IP3 (dBm)	P1dB (dBm)	Package Type
NDRM01001	1.0-4.0	30/15	1.1	0.5	10/42	-4 (@Max Gain) 10 (@LNA bypass)	-13 (@Max Gain) 2 (@LNA bypass)	QFN 6x6-40L
NDRM01002	1.0-4.0	30	1	0.5	10/42	-4	-13	QFN 6x6-40L

High Power Switch Module

Item No.	Frequency (GHz)	IL (dB)	Isolation (dB)	IP/OP VSWR	P1dB (dBm)	Switch (ns)	Application
NDRM02001	1.8-2.7	0.6	40	1.2	43dBm	100	Base Station
NDRM02002	2.0-2.7	0.6	40	1.2	35W	500	Base Station
NDRM02003	1.8-2.8	0.4	45	1.2	60W	500	Base Station
NDRM02004	1.8-2.8	0.4	45	1.2	35W	500	Base Station
NDRM02005	0.4-1	0.4	40	1.2	43dBm	100	Base Station
NDRM02006	0.2-1	0.2	47	1.2	60W	500	Base Station
NDRM02007	1.8-2.7	0.6	45	1.2	50dBm	500	Base Station
NDRM02008	1.7-3.7	0.6	42	1.2	49dBm	500	Base Station

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Note: All the data provided in this selection guide is subject to change without notice. The right is reserved to make changes to specifications and other information at any time.