

# GaAs Digital Attenuator MMIC

## Standard

Item No.	Frequency (GHz)	Bits	LSB(dB)	IL(dB)	VSWR	Attenuation Accuracy	Ton/ Toff(ns)	Control Input Voltage	Dimension (mm)
NDAC05001	DC-4	6	0.5	1.3	1.3	±(0.3+4%Ai)	20	0/-5V	2.1*0.95*0.1
NDAC05055	DC-6	6	0.5	2	1.3	±(0.3+5%Ai)	20	-5V/0V	2.2*1*0.1
NDAC05025	DC-6	6	0.25	0.8	1.3	±(0.3+5%Ai)	20	-5V/0V	2*0.8*0.1
NDAC05038	5-6	6	0.5	1.8	1.4	±(0.3+4 Ai)	20	0/-5V	3.25*1*0.1
NDAC05010	2-6.5	5	0.5	2	1.3	±(0.2+5%Ai)	20	0/-5V	2.33*1.2*0.1
NDAC05035	2-6.5	6	0.5	3	1.4	±(0.3+5%Ai)	20	0/-5V	3.25*1.2*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	±(0.2+5%Ai)	20	0/-5V	1.45*1.2*0.1
NDAC05030	DC-12	6	0.25	2.5	1.3	±(0.2+5%Ai)	20	0/-5V	2.33*1.13*0.1
NDAC05011	8-12	6	0.5	3.5	1.4	±(0.3+5%Ai)	20	0/-5V	3.25*1.25*0.1
NDAC05005	DC-18	1	20	2	1.4	±1	20	0/-5V	1.2*0.95*0.1
NDAC05007	DC-18	3	0.2	0.5	1.5	±0.2	20	0/-5V	1.2*1.03*0.1
NDAC05008	DC-18	6	0.3	3.5	1.4	±(0.2+5%Ai)	20	0/-5V	2.35*1.2*0.1
NDAC05032	DC-18	6	0.5	4.0	1.3	±(0.3+5%Ai)	20	0/-5V	2.6*1.0*0.1
NDAC05039	6-18	6	0.5	4.5	1.4	±(0.3+5%Ai)	20	0/-5V	3.26*1.04*0.1
NDAC05012	6-18	3	5	3.5	1.5	±(0.3+5%Ai)	20	0/-5V	2.49*1.24*0.1
NDAC05014	6-18	6	0.5	5	1.5	±(0.3+8%Ai)	20	0/-5V	3.25*1.2*0.1
NDAC05063	14-18	3	25	0.8	1.4	±1.5	20	0/-5V	0.8*1.0*0.08
NDAC05015	14-18	6	0.5	4.5	1.4	±(0.3+5%Ai)	20	0/-5V	3*1.25*0.1
NDAC05009	DC-20	3	0.25	0.55	1.3	±(0.3+5%Ai)	20	0/5V	1.35*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	2.0	1.4	±1.5	20	0/-5V	1.2*1.1*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	1.5	±(0.3+5%Ai)	20	0/-5V	3.25*1*0.1
NDAC05018	20-30	6	0.5	2.5	1.5	±(0.3+7%Ai)	20	0/-5V	3.25*1*0.1
NDAC05045	20-30	6	0.5	3.0	1.5	±(0.3+7%Ai)	20	0/-5V	2.75*1*0.1
NDAC05049	34-36	6	0.5	3	1.5	±(0.3+8%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
NDAC05021	30-40	5	0.5	2	1.5	±(0.2+7%Ai)	20	0/-5V	2.35*1*0.1
NDAC05064	25-50	6	0.5	3.5	1.5	±(0.3+6%Ai)	20	0/-5V	3.1*1.05*0.1

Note: All the MMICs above are delivered with die form, packaged form is also available if required.

# GaAs Digital Attenuator MMIC

TTL Driver

Item No.	Frequency (GHz)	Bits	LSB(dB)	IL(dB)	VSWR	Attenuation Accuracy	Ton/Toff(ns)	Control Input Voltage	Dimension (mm)
NDAC05061	DC-18	1	20	1.5	1.2	$\pm 1$	20	TTL	0.8*1.0*0.08
NDAC05062	DC-18	6	0.5	3.5	1.2	$\pm(0.3+5\%A_i)$	20	TTL	2.2*1.0*0.08
NDAC05022	DC-20	5	0.5	2.5	1.3	$\pm(0.3+5\%A_i)$	20	TTL	2.0*1.15*0.1