

# Digital Step Attenuator

# DAT-3175A-SN+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER=-10dBm, Vdd=+3V, Vss = -3.2V, TEMPERATURE=-45degC

FREQUENCY (MHz)	STEP ATTENUATION* AT TTL CONTROL STATE (dB)						
	00000 THRU LOSS	00001 1.0 dB	00010 2.0 dB	00100 4.0 dB	01000 8.0 dB	10000 16 dB	11111 31dB
10	0.98	1.04	2.05	4.11	8.17	16.17	31.20
50	0.98	1.05	2.05	4.11	8.17	16.20	31.35
100	0.99	1.04	2.05	4.11	8.16	16.20	31.27
150	1.00	1.04	2.04	4.10	8.16	16.19	31.29
200	1.00	1.05	2.05	4.10	8.16	16.20	31.23
250	1.01	1.04	2.05	4.10	8.16	16.20	31.29
300	1.01	1.04	2.05	4.11	8.16	16.21	31.23
350	1.02	1.04	2.05	4.11	8.17	16.21	31.31
400	1.02	1.04	2.05	4.11	8.17	16.21	31.30
450	1.03	1.04	2.04	4.10	8.16	16.20	31.25
500	1.05	1.04	2.04	4.10	8.15	16.19	31.30
550	1.07	1.03	2.03	4.09	8.14	16.17	31.29
600	1.08	1.03	2.03	4.09	8.13	16.17	31.27
700	1.12	1.03	2.03	4.07	8.11	16.14	31.24
800	1.17	1.03	2.02	4.06	8.09	16.12	31.15
900	1.18	1.03	2.02	4.05	8.10	16.14	31.27
1000	1.21	1.03	2.02	4.05	8.10	16.17	31.51
1100	1.24	1.02	2.02	4.05	8.10	16.16	31.41
1200	1.26	1.02	2.01	4.04	8.08	16.12	31.06
1300	1.25	1.02	2.01	4.04	8.08	16.08	30.65
1400	1.24	1.02	2.01	4.04	8.06	16.00	30.28
1500	1.28	1.02	2.02	4.05	8.10	16.14	31.09
1600	1.32	1.02	2.02	4.07	8.13	16.22	31.44
1700	1.32	1.02	2.02	4.08	8.13	16.20	31.04
1800	1.33	1.03	2.02	4.08	8.13	16.16	30.67
1900	1.34	1.03	2.02	4.09	8.12	16.09	30.07
2000	1.36	1.02	2.02	4.09	8.13	16.04	29.68
2100	1.38	1.02	2.02	4.10	8.16	16.06	29.56
2200	1.39	1.03	2.03	4.11	8.17	16.03	29.35
2300	1.47	1.04	2.05	4.14	8.23	16.15	29.97
2400	1.57	1.04	2.06	4.18	8.31	16.34	30.86
2500	1.34	1.04	2.05	4.17	8.27	16.09	29.22
2600	1.21	1.05	2.07	4.23	8.35	16.19	29.45
2700	1.17	1.06	2.08	4.28	8.43	16.28	29.52
2800	1.32	1.05	2.08	4.32	8.51	16.51	30.72
2900	1.63	1.03	2.05	4.29	8.48	16.56	31.00
3000	2.09	0.99	1.99	4.24	8.45	16.81	33.66

\* Step Attenuation above Thru Loss (TTL Logic 00000).



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IF/RF MICROWAVE COMPONENTS

# Digital Step Attenuator

# DAT-3175A-SN+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER=-10dBm, Vdd=+3V, Vss = -3.2V, TEMPERATURE=-45degC

FREQUENCY (MHz)	INPUT RETURN LOSS AT TTL CONTROL STATE (dB)						
	0000 0 dB	00001 1.0 dB	00010 2.0 dB	00100 4.0 dB	01000 8.0 dB	10000 16 dB	11111 31dB
10	19.90	22.62	24.20	37.05	29.27	24.73	23.22
50	19.52	22.11	23.57	40.52	30.44	25.60	23.88
100	19.65	22.23	23.70	38.36	30.30	25.67	23.92
150	19.34	21.78	23.12	40.42	31.89	26.66	24.74
200	19.48	21.90	23.28	40.22	31.60	26.53	24.66
250	19.26	21.66	23.02	43.20	32.44	26.90	24.97
300	19.37	21.88	23.30	39.35	30.95	26.16	24.38
350	19.23	21.73	23.16	38.01	30.83	26.08	24.31
400	19.25	21.77	23.20	33.77	29.38	25.47	23.87
450	19.17	21.61	22.99	32.66	29.41	25.68	24.05
500	19.16	21.50	22.81	30.62	28.57	25.46	23.95
550	19.16	21.43	22.69	30.54	28.94	25.91	24.40
600	19.14	21.35	22.51	29.56	28.48	25.91	24.46
700	19.27	21.36	22.42	29.16	28.41	26.24	24.84
800	19.12	21.11	22.05	28.32	27.82	26.19	25.00
900	18.82	20.72	21.58	27.30	27.00	25.87	24.88
1000	18.40	20.24	21.06	26.63	26.55	25.80	25.00
1100	17.94	19.68	20.46	26.06	26.39	26.26	25.64
1200	17.57	19.22	19.95	25.76	26.48	27.05	26.78
1300	17.20	18.79	19.46	25.71	26.97	28.63	28.90
1400	16.73	18.25	18.88	25.36	27.13	30.04	31.54
1500	16.49	17.99	18.62	25.55	27.98	32.73	36.17
1600	16.66	18.15	18.77	26.34	29.76	38.44	49.76
1700	17.54	19.01	19.55	27.63	30.95	32.98	30.94
1800	18.73	19.99	20.44	26.58	27.79	26.51	24.95
1900	19.68	20.59	20.92	23.77	24.17	22.85	21.64
2000	20.01	20.45	20.78	21.21	21.36	20.23	19.26
2100	20.22	20.16	20.43	19.17	19.12	18.12	17.29
2200	19.86	19.50	19.72	17.81	17.64	16.75	16.04
2300	21.46	20.95	21.07	18.03	17.47	16.44	15.72
2400	25.55	23.45	22.70	17.70	16.57	15.48	14.81
2500	31.40	24.90	22.83	16.81	15.37	14.32	13.79
2600	25.84	22.87	20.87	15.62	14.01	13.06	12.64
2700	19.54	19.43	18.47	14.69	13.10	12.25	11.91
2800	15.02	15.81	15.75	13.73	12.46	11.80	11.53
2900	12.33	13.33	13.68	12.92	12.09	11.62	11.42
3000	10.55	11.66	12.21	12.36	12.01	11.82	11.71

# Digital Step Attenuator

# DAT-3175A-SN+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER=-10dBm, Vdd=+3V, Vss = -3.2V, TEMPERATURE=-45degC

FREQUENCY (MHz)	OUTPUT RETURN LOSS AT TTL CONTROL STATE (dB)						
	0000 0 dB	00001 1.0 dB	00010 2.0 dB	00100 4.0 dB	01000 8.0 dB	10000 16 dB	11111 31dB
10	19.74	22.14	24.03	27.77	29.67	24.76	23.29
50	19.38	21.61	23.41	26.75	30.95	25.66	23.90
100	19.33	21.49	23.26	26.41	31.23	25.88	24.11
150	18.91	20.99	22.63	25.49	33.29	27.04	25.04
200	19.06	21.15	22.83	25.78	32.89	26.80	24.85
250	18.99	21.08	22.77	25.79	33.27	26.90	24.92
300	19.16	21.34	23.13	26.32	31.42	25.98	24.23
350	18.98	21.14	22.94	26.04	31.33	26.06	24.26
400	18.87	21.03	22.81	25.66	29.72	25.49	23.84
450	18.57	20.64	22.33	24.97	30.08	25.92	24.26
500	18.26	20.21	21.81	24.14	29.53	26.06	24.48
550	18.15	20.03	21.58	23.77	30.28	26.89	25.16
600	18.00	19.83	21.27	23.29	30.21	27.33	25.64
700	18.09	19.85	21.24	23.11	31.09	28.40	26.56
800	18.38	20.09	21.45	23.12	31.03	28.76	26.95
900	19.13	20.90	22.29	23.79	29.73	27.43	25.82
1000	19.34	21.04	22.33	23.50	28.86	27.20	25.78
1100	18.94	20.45	21.57	22.36	27.65	27.19	26.19
1200	18.73	20.09	21.09	21.63	26.79	27.08	26.52
1300	18.93	20.26	21.20	21.51	26.36	26.74	26.32
1400	19.08	20.39	21.27	21.47	26.35	26.79	26.52
1500	18.84	20.09	20.94	21.17	27.43	28.57	28.63
1600	17.94	19.04	19.79	20.04	26.40	28.69	29.97
1700	17.76	18.85	19.63	20.03	27.53	31.06	33.57
1800	17.64	18.78	19.63	20.48	30.43	39.49	50.18
1900	17.78	18.98	19.90	21.51	32.17	33.48	30.32
2000	17.73	18.89	19.80	22.30	26.88	25.50	23.87
2100	17.35	18.54	19.48	22.39	24.73	23.19	21.81
2200	18.72	19.97	20.94	24.86	22.27	20.37	19.23
2300	20.43	21.40	21.86	25.17	19.62	18.00	17.07
2400	23.35	24.34	24.35	27.15	19.09	17.37	16.46
2500	32.82	32.58	28.44	25.16	17.67	16.17	15.41
2600	33.07	32.66	27.15	21.43	16.16	14.81	14.19
2700	21.41	22.75	22.22	18.18	14.85	13.65	13.15
2800	15.53	16.90	17.58	15.68	14.14	13.21	12.81
2900	11.84	13.04	13.89	13.20	13.07	12.59	12.35
3000	9.64	10.71	11.56	11.48	12.29	12.29	12.23

# Digital Step Attenuator

# DAT-3175A-SN+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER=-10dBm, Vdd=+3V, Vss= -3.2V, TEMPERATURE=+25degC

FREQUENCY (MHz)	STEP ATTENUATION* AT TTL CONTROL STATE (dB)						
	00000 THRU LOSS	00001 1.0 dB	00010 2.0 dB	00100 4.0 dB	01000 8.0 dB	10000 16 dB	11111 31dB
10	1.10	1.02	2.03	4.04	8.00	16.00	30.91
50	1.11	1.02	2.01	4.01	8.00	15.97	30.88
100	1.12	1.02	2.02	4.01	8.01	15.98	30.92
150	1.13	1.01	2.02	4.02	8.00	15.98	30.89
200	1.14	1.02	2.02	4.01	8.00	15.97	30.89
250	1.15	1.01	2.01	4.01	8.00	15.96	30.88
300	1.16	1.01	2.01	4.01	7.99	15.96	30.90
350	1.18	1.02	2.01	4.01	8.00	15.98	30.97
400	1.20	1.01	2.01	4.01	7.99	15.97	30.88
450	1.21	1.01	2.01	4.00	7.98	15.96	30.88
500	1.22	1.01	2.01	4.00	7.98	15.95	30.94
550	1.24	1.01	2.00	4.00	7.97	15.94	30.92
600	1.26	1.01	2.00	3.99	7.97	15.94	30.93
700	1.29	1.01	2.00	3.99	7.96	15.93	30.91
800	1.34	1.00	2.00	3.98	7.95	15.92	30.83
900	1.36	1.00	2.00	3.98	7.96	15.94	31.00
1000	1.41	1.00	2.00	3.97	7.96	15.96	31.15
1100	1.44	1.00	2.00	3.97	7.96	15.96	31.06
1200	1.47	1.00	1.99	3.97	7.95	15.93	30.76
1300	1.48	0.99	1.99	3.96	7.94	15.87	30.30
1400	1.49	0.99	1.99	3.96	7.93	15.82	30.14
1500	1.54	1.00	1.99	3.98	7.97	15.97	30.94
1600	1.57	1.00	2.00	4.00	8.00	16.03	31.10
1700	1.58	1.00	2.00	4.00	8.00	15.99	30.69
1800	1.60	1.00	2.00	4.01	8.01	15.99	30.34
1900	1.62	1.00	1.99	4.01	8.01	15.91	29.85
2000	1.64	1.00	1.99	4.01	8.00	15.86	29.54
2100	1.63	0.99	1.99	4.01	8.02	15.88	29.48
2200	1.60	1.00	1.99	4.02	8.04	15.86	29.25
2300	1.59	1.00	1.99	4.04	8.09	15.97	29.88
2400	1.52	1.00	2.00	4.07	8.15	16.07	29.97
2500	1.29	1.00	2.00	4.08	8.12	15.88	28.90
2600	1.24	1.00	2.01	4.12	8.19	15.96	29.05
2700	1.28	1.01	2.02	4.15	8.24	16.03	29.30
2800	1.47	1.00	2.01	4.16	8.28	16.19	30.32
2900	1.80	0.98	1.98	4.14	8.25	16.27	30.82
3000	2.25	0.95	1.94	4.11	8.24	16.51	33.27

\* Step Attenuation above Thru Loss (TTL Logic 00000).



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IF/RF MICROWAVE COMPONENTS

# Digital Step Attenuator

# DAT-3175A-SN+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER=-10dBm, Vdd=+3V, Vss= -3.2V, TEMPERATURE=+25degC

FREQUENCY (MHz)	INPUT RETURN LOSS AT TTL CONTROL STATE (dB)						
	0000 0 dB	00001 1.0 dB	00010 2.0 dB	00100 4.0 dB	01000 8.0 dB	10000 16 dB	11111 31dB
10	18.79	20.35	20.96	31.48	36.58	48.35	36.54
50	18.49	19.95	20.56	30.32	34.85	58.89	39.15
100	18.63	20.14	20.79	30.94	35.85	48.82	37.48
150	18.34	19.81	20.45	29.72	33.88	46.04	39.82
200	18.43	19.90	20.53	29.75	33.77	42.37	38.30
250	18.23	19.65	20.28	28.90	32.38	41.03	40.71
300	18.27	19.68	20.29	28.68	31.95	38.64	38.92
350	18.12	19.50	20.08	28.13	31.12	38.22	41.50
400	18.16	19.54	20.11	27.99	30.78	36.94	39.38
450	18.18	19.52	20.08	27.92	30.71	37.43	42.61
500	18.29	19.63	20.17	27.94	30.49	36.66	40.79
550	18.38	19.73	20.22	28.05	30.62	37.47	44.41
600	18.49	19.82	20.32	28.01	30.42	36.62	41.84
700	18.69	20.01	20.47	28.17	30.25	36.03	40.84
800	18.64	19.93	20.36	27.56	29.26	33.80	37.26
900	18.43	19.70	20.10	26.68	27.94	31.48	33.94
1000	18.00	19.24	19.63	25.60	26.68	29.75	32.13
1100	17.36	18.54	18.91	24.38	25.36	28.27	30.89
1200	16.72	17.84	18.15	23.21	24.14	26.88	29.50
1300	16.19	17.21	17.49	22.22	23.08	25.50	27.97
1400	15.82	16.74	16.97	21.46	22.16	24.22	26.22
1500	15.77	16.64	16.82	21.29	21.95	23.77	25.47
1600	16.09	16.87	17.00	21.42	22.02	23.40	24.57
1700	16.76	17.41	17.45	21.54	21.99	22.63	23.04
1800	17.43	17.86	17.85	21.11	21.51	21.51	21.33
1900	17.92	18.14	18.14	20.33	20.80	20.41	19.89
2000	18.14	18.20	18.31	19.44	20.04	19.46	18.77
2100	18.40	18.32	18.54	18.66	19.27	18.54	17.77
2200	18.43	18.34	18.68	18.24	18.84	18.08	17.25
2300	20.19	20.20	20.69	19.43	19.83	18.76	17.76
2400	24.65	24.57	25.20	20.83	20.38	18.89	17.78
2500	38.26	34.82	31.78	20.49	18.98	17.63	16.76
2600	26.93	27.40	25.46	18.73	16.95	15.91	15.32
2700	19.83	20.93	20.57	17.28	15.60	14.78	14.37
2800	15.55	16.74	16.96	15.86	14.63	14.11	13.84
2900	12.92	14.13	14.62	14.75	14.05	13.83	13.68
3000	11.10	12.28	12.91	13.90	13.74	13.91	13.93

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FREQUENCY (MHz)	OUTPUT RETURN LOSS AT TTL CONTROL STATE (dB)						
	0000 0 dB	00001 1.0 dB	00010 2.0 dB	00100 4.0 dB	01000 8.0 dB	10000 16 dB	11111 31dB
10	18.77	20.00	20.91	21.82	35.76	45.95	36.34
50	18.41	19.65	20.55	21.52	34.18	59.31	38.84
100	18.48	19.73	20.65	21.68	34.69	47.71	37.58
150	18.14	19.36	20.27	21.26	32.93	45.25	40.09
200	18.15	19.38	20.28	21.29	32.65	41.83	38.53
250	17.89	19.08	19.98	20.92	31.42	40.95	41.58
300	17.86	19.05	19.92	20.86	30.89	38.39	39.49
350	17.68	18.83	19.67	20.55	30.09	37.70	42.53
400	17.67	18.81	19.67	20.54	29.81	36.54	40.08
450	17.60	18.72	19.56	20.37	29.56	36.80	44.15
500	17.56	18.67	19.50	20.28	29.10	35.84	42.12
550	17.59	18.67	19.50	20.22	29.05	36.03	45.82
600	17.56	18.63	19.43	20.13	28.69	35.20	43.65
700	17.70	18.74	19.53	20.13	28.69	35.30	44.98
800	17.93	18.97	19.73	20.22	28.69	35.20	44.70
900	18.46	19.53	20.31	20.68	29.67	37.12	48.16
1000	18.61	19.62	20.36	20.56	29.09	35.47	43.22
1100	18.36	19.29	19.97	19.98	27.25	31.88	36.50
1200	18.04	18.87	19.48	19.30	25.51	29.00	32.26
1300	17.88	18.63	19.15	18.84	24.47	27.43	30.24
1400	17.89	18.54	18.98	18.55	24.01	26.73	29.42
1500	17.63	18.15	18.49	18.08	23.34	25.73	28.14
1600	17.09	17.57	17.86	17.52	22.44	24.48	26.56
1700	17.06	17.53	17.86	17.66	22.83	24.80	26.60
1800	16.99	17.49	17.85	17.96	23.12	24.75	25.72
1900	17.12	17.66	18.10	18.63	23.43	24.24	24.17
2000	17.14	17.66	18.08	19.20	22.53	22.42	21.81
2100	17.40	17.99	18.44	20.09	22.51	21.89	21.02
2200	18.75	19.26	19.69	22.23	22.07	20.80	19.68
2300	19.44	19.88	20.17	23.60	20.76	19.38	18.32
2400	21.25	21.98	22.43	27.59	21.41	19.60	18.42
2500	25.96	28.08	28.74	36.27	20.76	18.75	17.65
2600	27.11	34.15	41.08	25.87	19.38	17.61	16.69
2700	20.63	22.77	24.03	20.00	17.62	16.29	15.64
2800	15.48	16.88	17.96	16.27	16.18	15.45	15.05
2900	12.18	13.32	14.28	13.54	14.55	14.43	14.28
3000	10.06	11.06	11.93	11.68	13.39	13.80	13.91

# Digital Step Attenuator

# DAT-3175A-SN+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER=-10dBm, Vdd=+3V, Vss =-3.2V, TEMPERATURE=+85degC

FREQUENCY (MHz)	STEP ATTENUATION* AT TTL CONTROL STATE (dB)						
	00000 THRU LOSS	00001 1.0 dB	00010 2.0 dB	00100 4.0 dB	01000 8.0 dB	10000 16 dB	11111 31dB
10	1.30	0.99	1.99	3.91	7.82	15.72	30.76
50	1.30	0.99	1.99	3.92	7.84	15.72	30.47
100	1.30	0.99	1.99	3.92	7.84	15.74	30.46
150	1.30	0.99	1.99	3.92	7.84	15.73	30.52
200	1.32	0.99	1.99	3.92	7.84	15.73	30.52
250	1.34	0.99	1.99	3.92	7.84	15.72	30.50
300	1.37	0.98	1.99	3.92	7.83	15.71	30.50
350	1.40	0.99	1.99	3.92	7.82	15.72	30.48
400	1.43	0.99	1.98	3.91	7.82	15.72	30.49
450	1.45	0.98	1.98	3.91	7.81	15.70	30.54
500	1.46	0.99	1.98	3.91	7.81	15.71	30.53
550	1.48	0.98	1.98	3.91	7.81	15.71	30.52
600	1.49	0.98	1.98	3.91	7.82	15.70	30.52
700	1.52	0.98	1.98	3.91	7.82	15.71	30.43
800	1.57	0.98	1.98	3.90	7.82	15.71	30.50
900	1.60	0.98	1.98	3.91	7.83	15.74	30.62
1000	1.65	0.98	1.98	3.90	7.83	15.77	30.82
1100	1.70	0.97	1.98	3.90	7.83	15.76	30.67
1200	1.74	0.97	1.97	3.90	7.82	15.71	30.39
1300	1.76	0.97	1.97	3.89	7.81	15.66	29.93
1400	1.78	0.97	1.97	3.90	7.81	15.66	29.95
1500	1.84	0.98	1.98	3.91	7.85	15.78	30.66
1600	1.86	0.98	1.98	3.93	7.87	15.82	30.71
1700	1.86	0.98	1.98	3.94	7.88	15.78	30.26
1800	1.85	0.98	1.98	3.94	7.89	15.75	29.83
1900	1.83	0.98	1.98	3.94	7.90	15.75	29.68
2000	1.82	0.98	1.98	3.95	7.91	15.72	29.47
2100	1.76	0.97	1.98	3.96	7.93	15.74	29.39
2200	1.72	0.97	1.97	3.96	7.95	15.74	29.26
2300	1.69	0.97	1.97	3.99	8.01	15.88	29.97
2400	1.54	0.97	1.96	4.00	8.00	15.75	29.03
2500	1.42	0.97	1.96	4.00	8.00	15.67	28.64
2600	1.42	0.96	1.96	4.01	8.02	15.72	28.85
2700	1.51	0.95	1.95	4.02	8.05	15.80	29.22
2800	1.72	0.94	1.94	4.03	8.07	15.89	29.90
2900	2.06	0.92	1.91	4.01	8.05	16.00	30.69
3000	2.48	0.90	1.89	3.99	8.05	16.21	32.93

\* Step Attenuation above Thru Loss (TTL Logic 00000).



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# Digital Step Attenuator

# DAT-3175A-SN+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER=-10dBm, Vdd=+3V, Vss =-3.2V, TEMPERATURE=+85degC

FREQUENCY (MHz)	INPUT RETURN LOSS AT TTL CONTROL STATE (dB)						
	00000 0 dB	00001 1.0 dB	00010 2.0 dB	00100 4.0 dB	01000 8.0 dB	10000 16 dB	11111 31dB
10	17.47	18.18	18.17	22.85	22.90	24.57	26.13
50	17.26	17.88	17.94	22.47	22.63	24.19	25.76
100	17.37	18.03	18.13	22.86	23.12	24.84	26.51
150	17.14	17.82	17.94	22.54	22.89	24.58	26.24
200	17.20	17.91	18.03	22.69	23.05	24.82	26.53
250	17.01	17.69	17.80	22.23	22.52	24.13	25.71
300	17.02	17.67	17.76	22.05	22.28	23.84	25.30
350	16.88	17.48	17.53	21.61	21.71	23.08	24.43
400	16.91	17.50	17.50	21.47	21.51	22.79	24.08
450	16.95	17.47	17.45	21.32	21.23	22.39	23.56
500	17.10	17.59	17.53	21.40	21.25	22.35	23.49
550	17.22	17.68	17.60	21.44	21.23	22.25	23.34
600	17.39	17.86	17.75	21.66	21.44	22.45	23.54
700	17.79	18.26	18.15	22.30	22.04	23.08	24.24
800	18.02	18.57	18.48	22.95	22.73	23.97	25.28
900	18.00	18.62	18.57	23.25	23.11	24.61	26.22
1000	17.52	18.22	18.22	22.75	22.72	24.35	26.07
1100	16.75	17.44	17.47	21.62	21.65	23.17	24.74
1200	15.93	16.59	16.62	20.36	20.40	21.73	23.08
1300	15.29	15.89	15.88	19.25	19.20	20.26	21.34
1400	14.96	15.45	15.37	18.45	18.27	19.08	19.95
1500	14.96	15.35	15.20	18.08	17.78	18.36	19.05
1600	15.33	15.55	15.31	17.96	17.55	17.84	18.33
1700	15.87	15.92	15.58	17.86	17.41	17.45	17.69
1800	16.35	16.21	15.86	17.68	17.37	17.16	17.20
1900	16.63	16.38	16.12	17.44	17.40	17.04	16.87
2000	16.85	16.58	16.46	17.34	17.62	17.16	16.80
2100	17.25	16.98	17.01	17.41	17.99	17.41	16.85
2200	17.80	17.59	17.78	17.94	18.79	18.09	17.38
2300	19.86	19.78	20.13	20.03	21.16	20.02	18.92
2400	24.16	24.56	25.29	23.78	24.83	22.58	20.83
2500	28.95	34.08	37.73	25.19	24.04	21.98	20.47
2600	24.72	28.31	28.40	23.27	21.28	20.08	19.17
2700	19.46	21.43	21.75	21.02	19.23	18.65	18.16
2800	15.93	17.48	17.97	18.89	17.76	17.67	17.47
2900	13.48	14.84	15.43	17.17	16.69	17.08	17.16
3000	11.63	12.88	13.50	15.74	15.89	16.79	17.21



# Digital Step Attenuator

# DAT-3175A-SN+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER=-10dBm, Vdd=+3V, Vss =-3.2V, TEMPERATURE=+85degC

FREQUENCY (MHz)	OUTPUT RETURN LOSS AT TTL CONTROL STATE (dB)						
	00000 0 dB	00001 1.0 dB	00010 2.0 dB	00100 4.0 dB	01000 8.0 dB	10000 16 dB	11111 31dB
10	17.48	17.82	18.10	17.95	22.77	24.68	26.30
50	17.25	17.68	17.95	17.78	22.52	24.32	25.93
100	17.43	17.89	18.21	18.08	23.07	25.04	26.83
150	17.23	17.73	18.07	17.98	22.92	24.90	26.65
200	17.18	17.69	18.05	17.98	22.94	24.98	26.78
250	16.80	17.29	17.64	17.58	22.22	24.07	25.65
300	16.58	17.06	17.38	17.32	21.72	23.47	24.98
350	16.32	16.74	17.05	16.92	21.06	22.61	23.92
400	16.30	16.70	16.99	16.83	20.85	22.33	23.59
450	16.30	16.68	16.93	16.73	20.62	21.94	23.10
500	16.42	16.78	16.99	16.78	20.63	21.93	23.06
550	16.61	16.94	17.14	16.89	20.69	21.88	22.97
600	16.81	17.11	17.30	17.01	20.88	22.05	23.12
700	17.19	17.50	17.67	17.35	21.38	22.54	23.59
800	17.53	17.87	18.07	17.71	22.02	23.28	24.45
900	17.96	18.35	18.58	18.13	22.86	24.33	25.63
1000	17.92	18.33	18.56	18.05	22.89	24.48	25.96
1100	17.47	17.88	18.14	17.55	22.18	23.84	25.46
1200	16.90	17.29	17.53	16.88	21.14	22.69	24.22
1300	16.48	16.79	16.99	16.27	20.15	21.47	22.84
1400	16.26	16.47	16.57	15.80	19.31	20.35	21.48
1500	15.92	15.98	15.98	15.21	18.27	19.00	19.86
1600	15.85	15.80	15.74	14.97	17.81	18.39	19.11
1700	16.12	16.00	15.88	15.18	17.85	18.24	18.77
1800	16.40	16.23	16.10	15.58	18.04	18.22	18.52
1900	16.58	16.42	16.31	16.15	18.26	18.20	18.25
2000	16.31	16.24	16.22	16.55	18.18	17.98	17.81
2100	16.51	16.57	16.66	17.55	18.89	18.51	18.08
2200	17.00	17.15	17.33	18.94	19.43	18.79	18.08
2300	17.51	17.76	18.00	20.29	19.95	19.03	18.15
2400	19.38	19.87	20.27	23.48	22.51	20.84	19.51
2500	22.28	23.48	24.50	29.92	24.88	21.90	20.17
2600	23.17	25.87	29.40	27.04	25.15	22.02	20.31
2700	19.49	21.50	23.68	20.74	22.30	20.81	19.66
2800	15.50	16.88	18.23	16.68	19.27	19.12	18.65
2900	12.63	13.73	14.79	13.93	16.73	17.39	17.46
3000	10.60	11.54	12.45	12.00	14.91	16.07	16.53