

Digital Step Attenuator

DAT-15575-SN+

Typical Performance Data

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

FREQUENCY (MHz)	STEP ATTENUATION* AT TTL CONTROL STATE						
	(dB)						
	00000 THRU LOSS	00001 0.5 dB	00010 1.0 dB	00100 2.0 dB	01000 4.0 dB	10000 8.0 dB	11111 15.5 dB
0.5	0.82	0.57	1.02	2.10	4.12	8.13	15.85
1	0.83	0.55	1.00	2.09	4.11	8.12	15.83
5	0.82	0.58	1.03	2.11	4.11	8.13	15.85
10	0.84	0.57	1.02	2.10	4.12	8.13	15.86
50	0.86	0.58	1.03	2.10	4.12	8.13	15.85
100	0.87	0.58	1.03	2.12	4.12	8.14	15.86
150	0.94	0.56	0.98	2.07	4.08	8.11	15.82
200	0.94	0.57	1.00	2.09	4.11	8.11	15.83
250	0.97	0.59	1.02	2.10	4.11	8.13	15.82
300	0.99	0.56	1.03	2.11	4.13	8.12	15.85
350	1.05	0.57	0.99	2.08	4.08	8.07	15.76
400	1.08	0.54	0.99	2.08	4.09	8.08	15.75
450	1.09	0.57	1.02	2.11	4.11	8.09	15.78
500	1.16	0.56	1.00	2.08	4.07	8.06	15.71
550	1.19	0.58	1.01	2.09	4.08	8.06	15.70
600	1.22	0.56	1.00	2.06	4.06	8.04	15.68
650	1.31	0.53	0.98	2.04	4.02	8.00	15.64
700	1.27	0.57	1.01	2.08	4.07	8.05	15.71
750	1.31	0.55	0.99	2.05	4.03	8.01	15.64
800	1.33	0.55	1.00	2.08	4.06	8.03	15.69
900	1.30	0.56	1.01	2.11	4.10	8.08	15.72
1000	1.33	0.55	0.99	2.12	4.13	8.09	15.71
1100	1.38	0.54	0.99	2.11	4.11	8.07	15.68
1200	1.45	0.54	0.98	2.11	4.08	8.04	15.63
1300	1.60	0.53	0.98	2.05	4.02	7.94	15.51
1400	1.68	0.53	0.98	2.03	3.97	7.90	15.41
1500	1.76	0.53	0.97	2.01	3.94	7.88	15.31
1600	1.83	0.51	0.96	2.03	3.97	7.90	15.38
1700	1.83	0.52	0.97	2.08	4.01	7.94	15.43
1800	1.80	0.52	0.97	2.15	4.11	8.02	15.52
1900	1.86	0.54	0.96	2.20	4.17	8.10	15.62
2000	1.90	0.53	0.98	2.23	4.21	8.13	15.66
2100	2.08	0.52	0.96	2.19	4.14	8.07	15.52
2200	2.26	0.51	0.95	2.13	4.05	7.97	15.37
2300	2.48	0.50	0.92	2.09	3.97	7.86	15.23
2400	2.68	0.49	0.87	2.07	3.95	7.81	15.07
2500	2.88	0.48	0.86	2.04	3.90	7.73	14.97
2600	3.21	0.46	0.83	2.00	3.83	7.64	14.74
2800	4.23	0.45	0.78	1.77	3.48	7.19	14.04
3000	4.40	0.43	0.78	1.74	3.41	7.03	13.55

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

REV. OR
DAT-15575-SN+
110526
Page 1 of 9



Mini-Circuits®
IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see minicircuits.com



Digital Step Attenuator

DAT-15575-SN+

Typical Performance Data

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

FREQUENCY (MHz)	INPUT RETURN LOSS AT TTL CONTROL STATE						
	(dB)						
	00000 0 dB	00001 0.5 dB	00010 1.0 dB	00100 2.0 dB	01000 4.0 dB	10000 8.0 dB	11111 15.5 dB
0.5	21.12	23.44	24.70	23.97	27.66	37.70	35.70
1	21.18	23.51	24.78	24.07	27.77	38.26	35.39
5	21.25	23.62	24.89	24.14	27.89	38.57	35.20
10	21.24	23.60	24.86	24.14	27.93	38.53	35.07
50	21.05	23.28	24.52	23.81	27.28	35.88	35.19
100	20.34	22.38	23.46	22.78	25.77	32.06	37.84
150	20.12	22.09	23.15	22.52	25.42	31.53	38.92
200	19.99	21.89	22.96	22.23	25.03	30.85	41.04
250	20.44	22.48	23.63	22.84	25.80	32.23	39.93
300	20.22	22.15	23.32	22.50	25.14	30.71	36.15
350	20.33	22.16	23.41	22.40	24.98	30.17	34.95
400	19.54	21.24	22.35	21.38	23.56	27.72	32.18
450	19.20	20.79	21.87	20.89	22.94	26.89	32.75
500	19.08	20.57	21.72	20.66	22.59	26.39	32.36
550	19.12	20.68	21.79	20.70	22.63	26.54	33.51
600	19.43	20.97	22.25	20.92	22.84	26.90	33.70
650	19.27	20.74	22.01	20.62	22.56	26.37	32.87
700	19.49	21.02	22.30	20.74	22.58	26.33	32.45
750	18.92	20.27	21.55	20.07	21.66	25.02	30.27
800	18.80	20.17	21.44	19.87	21.40	24.70	29.95
900	17.83	19.04	20.23	18.68	20.01	22.85	27.31
1000	17.02	18.10	19.17	17.72	18.88	21.39	25.41
1100	17.13	18.16	19.24	17.68	18.70	21.14	24.98
1200	18.08	19.21	20.25	18.61	19.61	22.09	25.78
1300	19.76	20.99	22.06	20.24	21.35	23.97	27.02
1400	22.12	23.70	24.72	22.88	24.25	27.58	28.65
1500	25.36	27.50	28.08	26.54	28.84	33.85	29.03
1600	29.53	33.38	32.90	30.75	34.59	41.55	27.62
1700	33.67	41.48	38.96	29.91	30.30	29.94	25.12
1800	28.95	31.42	36.55	25.55	25.16	25.43	23.42
1900	24.52	25.98	29.88	22.30	22.08	22.67	22.02
2000	20.82	22.04	25.06	19.69	19.89	20.88	21.01
2100	18.39	19.48	22.02	17.97	18.42	19.58	20.20
2200	16.55	17.56	19.70	16.52	17.14	18.37	19.20
2300	14.64	15.51	17.30	14.85	15.56	16.92	17.90
2400	12.75	13.54	15.01	13.16	13.92	15.37	16.53
2500	11.27	11.94	13.17	11.74	12.54	14.06	15.28
2600	9.75	10.37	11.45	10.32	11.14	12.66	14.09
2800	7.73	8.23	9.12	8.38	9.16	10.76	12.49
3000	7.16	7.60	8.41	7.68	8.40	9.95	11.78

REV. OR
DAT-15575-SN+
110526
Page 2 of 9



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Digital Step Attenuator

DAT-15575-SN+

Typical Performance Data

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

FREQUENCY (MHz)	OUTPUT RETURN LOSS AT TTL CONTROL STATE						
	(dB)						
	00000 0 dB	00001 0.5 dB	00010 1.0 dB	00100 2.0 dB	01000 4.0 dB	10000 8.0 dB	11111 15.5 dB
0.5	21.21	22.50	22.50	30.52	54.57	38.23	26.44
1	21.28	22.58	22.60	30.61	57.06	37.74	26.36
5	21.37	22.68	22.69	30.76	56.98	37.79	26.45
10	21.33	22.63	22.63	30.66	52.86	37.74	26.40
50	21.00	22.31	22.32	29.78	41.48	38.33	26.89
100	20.48	21.62	21.63	28.10	36.78	39.66	28.16
150	20.28	21.41	21.43	27.65	36.11	40.81	28.61
200	20.21	21.38	21.37	27.49	35.29	40.76	28.90
250	20.41	21.56	21.52	27.85	35.55	38.18	28.07
300	20.17	21.19	21.19	26.90	32.89	35.06	28.41
350	19.92	20.86	20.85	26.18	31.18	33.73	29.05
400	19.32	20.27	20.26	25.23	29.92	32.75	30.23
450	19.14	20.02	20.05	24.87	29.60	32.74	31.83
500	19.27	20.07	20.12	25.04	30.08	33.76	32.74
550	19.61	20.44	20.48	25.77	31.14	35.25	31.73
600	19.75	20.57	20.61	25.86	31.26	34.68	31.05
650	19.82	20.56	20.64	25.82	30.86	33.77	30.51
700	19.62	20.36	20.41	25.37	29.93	32.21	30.31
750	19.47	20.13	20.17	24.94	28.94	30.74	29.63
800	18.90	19.54	19.57	23.93	27.42	29.09	30.02
900	17.82	18.38	18.39	22.21	25.15	26.43	30.91
1000	17.17	17.59	17.59	21.19	23.88	24.98	33.80
1100	17.36	17.75	17.70	21.42	24.06	25.04	34.97
1200	18.26	18.65	18.54	22.61	25.31	26.01	31.51
1300	19.50	19.95	19.76	24.21	26.35	26.96	27.59
1400	21.51	21.97	21.74	26.22	27.27	27.73	24.44
1500	24.19	24.86	24.64	28.80	27.60	28.12	22.49
1600	27.27	28.52	28.23	30.82	27.19	27.16	21.12
1700	29.40	30.84	30.95	32.53	26.95	26.29	20.45
1800	27.61	28.68	28.55	33.22	26.80	25.36	20.03
1900	24.54	25.06	25.12	31.74	26.66	24.53	19.83
2000	22.19	22.71	22.88	29.78	26.54	24.07	19.66
2100	20.16	20.55	20.83	26.58	25.42	22.98	19.12
2200	18.37	18.84	19.17	24.12	24.15	21.98	18.72
2300	16.49	16.87	17.17	21.06	21.73	20.36	17.87
2400	14.45	14.81	15.11	18.38	19.58	18.94	17.45
2500	12.65	12.95	13.22	15.93	17.35	17.23	16.83
2600	11.07	11.34	11.63	14.08	15.57	15.83	16.39
2800	9.39	9.63	9.85	12.01	13.46	14.23	16.10
3000	9.04	9.21	9.36	11.31	12.61	13.33	16.27

REV. OR
DAT-15575-SN+
110526
Page 3 of 9



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Digital Step Attenuator

DAT-15575-SN+

Typical Performance Data

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

FREQUENCY (MHz)	STEP ATTENUATION* AT TTL CONTROL STATE						
	00000 THRU LOSS	00001 0.5 dB	00010 1.0 dB	00100 2.0 dB	01000 4.0 dB	10000 8.0 dB	11111 15.5 dB
0.5	0.93	0.56	1.00	2.07	4.07	8.05	15.69
1	0.95	0.55	0.99	2.06	4.06	8.04	15.69
5	0.95	0.55	1.00	2.07	4.06	8.04	15.69
10	0.96	0.56	1.00	2.07	4.06	8.04	15.70
50	0.99	0.57	0.99	2.07	4.07	8.04	15.70
100	1.00	0.56	1.01	2.09	4.07	8.07	15.70
150	1.03	0.57	1.02	2.09	4.08	8.06	15.71
200	1.07	0.58	1.00	2.08	4.07	8.04	15.69
250	1.12	0.56	0.99	2.08	4.07	8.04	15.68
300	1.18	0.58	0.98	2.06	4.04	8.02	15.64
350	1.21	0.54	0.98	2.05	4.03	8.01	15.63
400	1.24	0.55	0.98	2.06	4.03	8.00	15.61
450	1.27	0.57	1.00	2.08	4.04	8.02	15.63
500	1.36	0.56	0.99	2.06	4.03	7.99	15.58
550	1.45	0.51	0.95	2.02	3.98	7.95	15.53
600	1.42	0.56	0.99	2.07	4.02	7.98	15.52
650	1.53	0.53	0.97	2.03	4.00	7.94	15.51
700	1.53	0.53	0.96	2.04	4.00	7.95	15.51
750	1.56	0.53	0.97	2.04	4.00	7.96	15.51
800	1.58	0.52	0.97	2.05	4.03	7.96	15.53
900	1.57	0.53	0.97	2.08	4.04	7.98	15.50
1000	1.61	0.51	0.97	2.09	4.05	7.98	15.54
1100	1.66	0.51	0.96	2.08	4.03	7.96	15.53
1200	1.74	0.51	0.95	2.05	4.00	7.92	15.43
1300	1.88	0.51	0.96	2.01	3.94	7.86	15.31
1400	1.97	0.50	0.96	2.00	3.92	7.83	15.25
1500	2.05	0.51	0.97	2.01	3.92	7.82	15.24
1600	2.12	0.50	0.97	2.04	3.95	7.85	15.24
1700	2.14	0.50	0.93	2.07	4.00	7.87	15.29
1800	2.09	0.51	0.93	2.13	4.05	7.93	15.42
1900	2.14	0.50	0.94	2.16	4.10	7.97	15.41
2000	2.16	0.52	0.95	2.19	4.13	7.98	15.43
2100	2.30	0.52	0.94	2.15	4.07	7.94	15.33
2200	2.50	0.49	0.92	2.09	3.98	7.86	15.15
2300	2.71	0.49	0.90	2.06	3.91	7.77	15.02
2400	2.90	0.49	0.88	2.06	3.90	7.72	14.91
2500	3.10	0.48	0.86	2.04	3.86	7.66	14.77
2600	3.43	0.46	0.84	1.99	3.78	7.56	14.59
2800	4.46	0.44	0.77	1.77	3.46	7.14	13.89
3000	4.69	0.44	0.79	1.78	3.43	7.07	13.47

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

REV. OR
DAT-15575-SN+
110526
Page 4 of 9



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Mini-Circuits®

minicircuits.com

Digital Step Attenuator

DAT-15575-SN+

Typical Performance Data

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

FREQUENCY (MHz)	INPUT RETURN LOSS AT TTL CONTROL STATE						
	(dB)						
	00000 0 dB	00001 0.5 dB	00010 1.0 dB	00100 2.0 dB	01000 4.0 dB	10000 8.0 dB	11111 15.5 dB
0.5	20.24	21.85	22.55	21.21	22.84	25.81	31.70
1	20.28	21.87	22.62	21.25	22.87	25.81	31.66
5	20.32	21.95	22.68	21.33	22.92	25.87	31.75
10	20.35	21.97	22.73	21.35	22.98	25.94	31.99
50	20.35	21.98	22.63	21.32	22.91	25.86	31.76
100	20.12	21.66	22.39	21.08	22.59	25.39	30.67
150	19.95	21.42	22.17	20.88	22.36	25.11	30.32
200	19.59	21.03	21.74	20.47	21.83	24.40	28.97
250	19.43	20.82	21.50	20.24	21.60	24.13	28.64
300	18.94	20.19	20.95	19.72	20.98	23.32	27.37
350	18.77	20.00	20.76	19.47	20.72	22.99	26.85
400	18.23	19.34	20.10	18.88	20.03	22.16	25.84
450	17.84	18.93	19.67	18.41	19.47	21.48	24.82
500	17.61	18.63	19.41	18.15	19.13	21.08	24.29
550	17.36	18.39	19.10	17.80	18.74	20.63	23.58
600	17.39	18.38	19.15	17.76	18.70	20.52	23.51
650	17.12	18.07	18.83	17.45	18.32	20.06	22.83
700	17.39	18.36	19.17	17.63	18.46	20.19	22.97
750	17.18	18.10	18.92	17.33	18.17	19.80	22.50
800	17.40	18.36	19.19	17.53	18.28	19.88	22.54
900	17.38	18.26	19.11	17.34	17.96	19.50	21.88
1000	17.52	18.39	19.21	17.34	17.87	19.27	21.43
1100	18.28	19.11	19.92	17.86	18.31	19.52	21.46
1200	19.23	20.05	20.86	18.59	18.94	20.11	21.84
1300	20.16	20.99	21.74	19.38	19.72	20.80	22.30
1400	21.31	22.20	22.71	20.55	20.89	22.05	23.24
1500	22.49	23.47	23.90	21.90	22.28	23.52	24.64
1600	23.77	24.88	25.10	23.33	23.96	25.68	26.27
1700	25.84	27.02	26.99	25.44	26.37	29.40	28.37
1800	27.15	29.47	29.33	26.80	28.56	35.96	30.65
1900	28.63	32.17	34.77	26.74	28.00	36.16	30.67
2000	25.64	28.15	37.84	23.61	24.18	27.73	27.90
2100	21.67	23.21	27.48	20.31	20.83	22.98	24.23
2200	18.22	19.24	21.87	17.39	17.90	19.61	21.19
2300	15.07	15.94	17.78	14.82	15.40	17.02	18.80
2400	12.67	13.38	14.83	12.72	13.40	15.01	16.96
2500	11.03	11.66	12.91	11.30	11.99	13.69	15.67
2600	9.65	10.23	11.34	10.04	10.79	12.47	14.58
2800	8.16	8.69	9.68	8.68	9.46	11.16	13.39
3000	8.04	8.52	9.41	8.47	9.14	10.79	13.00

REV. OR
DAT-15575-SN+
110526
Page 5 of 9



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Digital Step Attenuator

DAT-15575-SN+

Typical Performance Data

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

FREQUENCY (MHz)	OUTPUT RETURN LOSS AT TTL CONTROL STATE						
	(dB)						
	00000 0 dB	00001 0.5 dB	00010 1.0 dB	00100 2.0 dB	01000 4.0 dB	10000 8.0 dB	11111 15.5 dB
0.5	19.93	20.58	20.32	24.91	28.87	30.37	56.49
1	19.91	20.60	20.33	24.88	28.77	30.26	65.28
5	20.01	20.69	20.42	25.01	28.93	30.36	61.85
10	20.02	20.70	20.42	25.02	28.98	30.43	60.31
50	19.98	20.68	20.43	25.00	28.88	30.33	60.94
100	20.05	20.75	20.47	25.05	28.96	30.41	54.35
150	20.02	20.67	20.44	25.04	28.86	30.42	48.75
200	19.89	20.56	20.33	24.73	28.52	29.85	44.44
250	19.68	20.29	20.06	24.33	27.84	29.13	41.17
300	19.41	19.99	19.83	23.93	27.03	28.32	38.02
350	19.07	19.67	19.48	23.27	26.22	27.29	36.29
400	18.69	19.19	19.05	22.73	25.45	26.40	34.15
450	18.12	18.62	18.49	21.86	24.30	25.15	32.14
500	17.79	18.25	18.12	21.43	23.69	24.42	31.10
550	17.50	17.92	17.79	20.98	23.05	23.70	30.00
600	17.32	17.67	17.54	20.65	22.62	23.17	29.11
650	17.12	17.51	17.35	20.39	22.30	22.71	28.45
700	17.12	17.46	17.29	20.35	22.18	22.46	27.85
750	17.12	17.41	17.23	20.32	22.03	22.20	27.39
800	17.09	17.33	17.18	20.21	21.87	21.97	26.75
900	17.30	17.55	17.31	20.40	21.83	21.71	25.89
1000	17.85	18.03	17.75	20.97	22.23	21.90	25.27
1100	18.72	18.82	18.51	21.80	22.94	22.22	24.92
1200	19.71	19.76	19.33	22.82	23.77	22.96	24.85
1300	20.47	20.49	20.03	23.66	24.46	23.60	24.86
1400	21.08	21.05	20.55	24.27	24.76	24.08	24.37
1500	21.57	21.58	21.05	24.40	24.81	24.56	23.80
1600	22.16	22.32	21.92	24.88	25.09	25.34	23.14
1700	22.88	23.13	22.76	25.64	25.57	26.49	22.67
1800	23.91	24.34	24.01	26.75	26.04	27.62	21.88
1900	25.52	26.05	25.99	29.04	26.91	28.51	21.09
2000	26.76	27.70	27.65	32.80	27.45	27.85	20.28
2100	24.39	24.87	24.90	32.89	27.23	25.88	19.63
2200	20.30	20.50	20.66	26.22	25.31	23.68	19.40
2300	16.87	17.11	17.24	21.50	22.41	21.39	19.31
2400	14.37	14.58	14.79	18.36	19.88	19.55	19.43
2500	12.44	12.67	12.85	15.97	17.56	17.69	19.13
2600	11.02	11.26	11.46	14.26	15.90	16.29	18.82
2800	10.02	10.22	10.38	12.93	14.44	15.15	19.16
3000	10.01	10.15	10.27	12.54	13.80	14.36	18.71

REV. OR
DAT-15575-SN+
110526
Page 6 of 9



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Digital Step Attenuator

DAT-15575-SN+

Typical Performance Data

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

FREQUENCY (MHz)	STEP ATTENUATION* AT TTL CONTROL STATE						
	00000 THRU LOSS	00001 0.5 dB	00010 1.0 dB	00100 2.0 dB	01000 4.0 dB	10000 8.0 dB	11111 15.5 dB
0.5	1.05	0.54	0.98	2.04	4.02	7.97	15.54
1	1.06	0.54	0.98	2.04	4.02	7.97	15.55
5	1.06	0.54	0.97	2.04	4.01	7.96	15.55
10	1.08	0.54	0.98	2.04	4.01	7.97	15.55
50	1.13	0.53	0.97	2.02	4.00	7.96	15.53
100	1.16	0.53	0.97	2.03	4.01	7.97	15.51
150	1.20	0.54	0.97	2.04	4.01	7.96	15.56
200	1.24	0.52	0.96	2.04	4.00	7.95	15.49
250	1.25	0.57	1.00	2.08	4.03	7.99	15.56
300	1.33	0.56	0.98	2.05	4.00	7.95	15.51
350	1.39	0.52	0.95	2.02	3.98	7.91	15.43
400	1.42	0.54	0.98	2.04	4.00	7.94	15.52
450	1.49	0.52	0.97	2.03	3.98	7.91	15.47
500	1.57	0.52	0.97	2.03	3.97	7.91	15.44
550	1.65	0.52	0.95	2.01	3.96	7.88	15.40
600	1.67	0.52	0.95	2.01	3.97	7.90	15.39
650	1.78	0.51	0.95	2.00	3.95	7.88	15.35
700	1.77	0.52	0.94	2.02	3.97	7.90	15.40
750	1.81	0.52	0.95	2.03	3.97	7.90	15.37
800	1.83	0.52	0.96	2.05	3.99	7.92	15.40
900	1.83	0.52	0.96	2.06	4.01	7.92	15.41
1000	1.86	0.52	0.96	2.08	4.02	7.93	15.41
1100	1.91	0.51	0.95	2.06	3.99	7.89	15.37
1200	1.97	0.51	0.94	2.05	3.97	7.86	15.29
1300	2.11	0.52	0.95	2.02	3.92	7.84	15.22
1400	2.23	0.51	0.96	2.00	3.92	7.80	15.15
1500	2.35	0.51	0.97	2.01	3.91	7.80	15.12
1600	2.44	0.50	0.95	2.04	3.93	7.82	15.17
1700	2.46	0.48	0.93	2.07	3.97	7.83	15.22
1800	2.41	0.49	0.92	2.12	4.03	7.88	15.25
1900	2.46	0.48	0.92	2.13	4.03	7.87	15.25
2000	2.48	0.49	0.91	2.14	4.02	7.84	15.20
2100	2.60	0.49	0.93	2.12	3.96	7.80	15.10
2200	2.75	0.48	0.91	2.06	3.92	7.74	14.95
2300	2.94	0.49	0.90	2.03	3.88	7.69	14.86
2400	3.14	0.46	0.87	2.03	3.85	7.64	14.74
2500	3.35	0.48	0.85	2.03	3.84	7.57	14.63
2600	3.75	0.44	0.82	1.96	3.72	7.46	14.36
2800	4.92	0.43	0.76	1.73	3.38	7.07	13.64
3000	5.23	0.44	0.78	1.79	3.46	7.06	13.34

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

REV. OR
DAT-15575-SN+
110526
Page 7 of 9



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Digital Step Attenuator

DAT-15575-SN+

Typical Performance Data

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

FREQUENCY (MHz)	INPUT RETURN LOSS AT TTL CONTROL STATE						
	(dB)						
	00000 0 dB	00001 0.5 dB	00010 1.0 dB	00100 2.0 dB	01000 4.0 dB	10000 8.0 dB	11111 15.5 dB
0.5	18.92	19.98	20.36	18.79	19.46	20.68	23.09
1	19.02	20.09	20.47	18.88	19.54	20.78	23.15
5	19.10	20.18	20.58	18.97	19.61	20.85	23.29
10	19.09	20.16	20.55	18.96	19.62	20.85	23.30
50	19.23	20.35	20.73	19.11	19.73	21.02	23.53
100	19.19	20.25	20.64	19.08	19.73	20.97	23.44
150	19.36	20.43	20.86	19.22	19.88	21.22	23.72
200	18.86	19.89	20.37	18.78	19.40	20.63	23.07
250	18.71	19.75	20.22	18.66	19.31	20.57	23.01
300	17.96	18.93	19.42	17.96	18.56	19.78	22.05
350	17.85	18.76	19.27	17.77	18.35	19.50	21.73
400	17.18	18.01	18.54	17.12	17.67	18.83	20.88
450	16.90	17.73	18.24	16.82	17.34	18.40	20.37
500	16.61	17.38	17.92	16.50	16.98	18.04	19.90
550	16.52	17.24	17.79	16.31	16.76	17.74	19.45
600	16.49	17.18	17.77	16.25	16.65	17.61	19.31
650	16.29	16.98	17.54	16.02	16.37	17.25	18.93
700	16.41	17.10	17.68	16.04	16.40	17.20	18.80
750	16.19	16.87	17.42	15.78	16.10	16.90	18.39
800	16.29	16.91	17.47	15.76	16.00	16.74	18.14
900	16.16	16.73	17.20	15.53	15.63	16.21	17.46
1000	16.44	16.94	17.32	15.60	15.57	16.03	17.01
1100	17.38	17.81	18.10	16.29	16.15	16.42	17.15
1200	18.73	19.10	19.30	17.42	17.13	17.24	17.78
1300	20.30	20.63	20.60	18.78	18.46	18.47	18.74
1400	22.28	22.65	22.46	20.50	20.17	20.24	20.37
1500	23.89	24.39	24.34	21.79	21.52	21.94	22.33
1600	24.17	24.90	25.41	21.96	21.85	22.83	23.82
1700	23.83	24.75	25.51	21.89	21.77	23.14	24.60
1800	22.89	23.87	24.59	21.53	21.57	23.11	24.84
1900	22.70	23.57	24.18	21.81	22.22	24.07	25.55
2000	23.21	24.33	25.05	22.73	23.61	26.61	27.86
2100	24.59	26.70	28.89	23.98	25.37	32.31	32.65
2200	23.61	25.88	33.59	22.17	23.02	27.50	28.93
2300	18.51	19.68	22.69	17.65	18.27	20.53	22.63
2400	14.23	15.01	16.76	13.92	14.58	16.38	18.47
2500	11.42	12.07	13.39	11.46	12.11	13.73	15.88
2600	9.39	9.96	11.05	9.63	10.28	11.87	13.93
2800	7.73	8.21	9.09	8.09	8.71	10.21	12.26
3000	8.07	8.51	9.35	8.37	8.89	10.31	12.27

REV. OR
DAT-15575-SN+
110526
Page 8 of 9



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Digital Step Attenuator

DAT-15575-SN+

Typical Performance Data

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

FREQUENCY (MHz)	OUTPUT RETURN LOSS AT TTL CONTROL STATE						
	(dB)						
	00000 0 dB	00001 0.5 dB	00010 1.0 dB	00100 2.0 dB	01000 4.0 dB	10000 8.0 dB	11111 15.5 dB
0.5	18.80	19.13	18.70	21.85	23.61	23.40	28.23
1	18.94	19.24	18.80	22.00	23.80	23.56	28.47
5	18.98	19.29	18.87	22.04	23.76	23.55	28.48
10	18.96	19.28	18.85	22.04	23.78	23.55	28.48
50	19.08	19.41	18.96	22.19	23.94	23.75	28.71
100	19.17	19.51	19.07	22.34	24.20	23.97	29.18
150	19.28	19.64	19.19	22.56	24.46	24.30	29.80
200	18.88	19.17	18.82	21.93	23.73	23.59	28.65
250	18.48	18.79	18.45	21.45	23.12	23.07	27.81
300	17.90	18.18	17.89	20.69	22.14	22.15	26.29
350	17.62	17.92	17.62	20.37	21.76	21.65	25.65
400	17.18	17.42	17.16	19.76	21.12	21.09	24.74
450	16.94	17.16	16.91	19.46	20.74	20.64	24.14
500	16.72	16.92	16.67	19.22	20.45	20.28	23.63
550	16.75	16.91	16.66	19.21	20.40	20.16	23.42
600	16.61	16.75	16.51	19.03	20.11	19.80	22.95
650	16.67	16.82	16.55	19.06	20.09	19.69	22.78
700	16.61	16.76	16.45	18.99	19.91	19.43	22.36
750	16.68	16.79	16.44	18.94	19.79	19.24	22.08
800	16.45	16.55	16.20	18.63	19.40	18.74	21.37
900	16.48	16.47	16.12	18.38	18.88	18.11	20.27
1000	16.84	16.76	16.32	18.48	18.70	17.76	19.52
1100	17.58	17.40	16.87	18.79	18.85	17.80	19.06
1200	18.49	18.23	17.72	19.51	19.31	18.27	19.05
1300	19.41	19.11	18.57	20.27	20.03	19.10	19.51
1400	20.29	20.02	19.50	21.13	20.88	20.10	20.10
1500	21.00	20.74	20.26	22.12	21.89	21.27	20.86
1600	21.50	21.30	20.76	23.09	22.82	22.43	21.48
1700	21.46	21.36	20.84	23.65	23.49	23.21	21.99
1800	21.32	21.29	20.75	23.55	23.45	23.41	21.70
1900	21.98	22.01	21.61	23.76	23.37	23.89	20.80
2000	24.24	24.29	23.95	24.69	23.62	24.53	19.78
2100	29.64	29.66	29.47	27.53	24.77	26.26	19.20
2200	28.19	28.16	27.93	29.25	25.35	25.79	18.85
2300	20.67	20.71	20.67	24.58	23.67	22.91	18.71
2400	15.85	15.89	16.04	19.51	20.35	19.67	18.72
2500	12.53	12.66	12.78	15.72	16.96	16.81	18.28
2600	10.35	10.51	10.64	13.28	14.60	14.79	17.77
2800	9.08	9.23	9.33	11.72	12.96	13.40	17.67
3000	9.88	10.01	10.06	12.31	13.27	13.62	17.56

REV. OR
DAT-15575-SN+
110526
Page 9 of 9



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

