

Not recommended for new designs.

# Recommended replacement part: DAT-15R5A-PN+ Digital Step Attenuator DAT-15R5-PN+

## 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	1.15	0.55	1.06	2.10	4.12	8.10	15.74
1	1.15	0.54	1.05	2.08	4.12	8.09	15.74
5	1.15	0.55	1.06	2.08	4.12	8.09	15.74
10	1.16	0.54	1.05	2.09	4.13	8.09	15.74
50	1.17	0.55	1.05	2.08	4.12	8.08	15.73
100	1.22	0.53	1.04	2.06	4.10	8.07	15.72
200	1.24	0.53	1.04	2.08	4.10	8.10	15.71
300	1.25	0.54	1.06	2.09	4.10	8.10	15.72
400	1.26	0.55	1.05	2.08	4.12	8.10	15.75
500	1.28	0.53	1.04	2.09	4.11	8.10	15.74
600	1.28	0.54	1.06	2.09	4.15	8.13	15.76
700	1.26	0.54	1.07	2.13	4.19	8.16	15.82
800	1.28	0.55	1.07	2.14	4.19	8.18	15.83
900	1.31	0.56	1.07	2.15	4.20	8.17	15.83
1000	1.37	0.56	1.07	2.13	4.17	8.15	15.78
1100	1.42	0.55	1.07	2.13	4.16	8.12	15.77
1200	1.46	0.55	1.06	2.14	4.15	8.13	15.74
1300	1.50	0.54	1.05	2.10	4.15	8.11	15.71
1400	1.56	0.52	1.05	2.12	4.12	8.10	15.66
1500	1.63	0.53	1.05	2.11	4.12	8.05	15.63
1600	1.65	0.55	1.07	2.15	4.15	8.10	15.66
1700	1.67	0.54	1.05	2.14	4.18	8.11	15.68
1800	1.69	0.55	1.04	2.17	4.18	8.13	15.70
1900	1.74	0.53	1.05	2.15	4.15	8.13	15.67
2000	1.78	0.55	1.07	2.17	4.19	8.10	15.68
2100	1.86	0.54	1.06	2.16	4.17	8.14	15.65
2200	1.93	0.55	1.06	2.17	4.17	8.14	15.69
2300	2.03	0.55	1.06	2.18	4.18	8.13	15.68
2400	2.13	0.54	1.04	2.15	4.15	8.12	15.68
2500	2.22	0.57	1.08	2.16	4.17	8.11	15.62
2600	2.25	0.57	1.07	2.16	4.16	8.12	15.56
2800	2.45	0.58	1.10	2.19	4.19	8.12	15.54
3000	2.83	0.60	1.10	2.20	4.10	7.96	15.17
3200	3.04	0.58	1.06	2.12	4.00	7.78	14.71
3600	3.76	0.64	1.08	2.12	3.99	7.79	15.00
4000	3.94	0.66	1.15	2.31	4.32	8.30	16.49
4500	3.13	0.70	1.19	2.32	4.24	7.94	15.27
5000	3.23	0.76	1.25	2.41	4.28	7.75	14.44
5500	3.99	0.94	1.35	2.53	4.36	7.98	15.30
6000	5.51	0.98	1.25	2.47	4.17	7.60	15.17

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



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Not recommended for new designs.

# Recommended replacement part: DAT-15R5A-PN+ Digital Step Attenuator DAT-15R5-PN+

## 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	18.32	20.46	22.48	20.34	23.32	29.50	37.46
1	18.34	20.48	22.50	20.36	23.35	29.55	37.36
5	18.36	20.52	22.54	20.39	23.38	29.60	37.25
10	18.35	20.51	22.52	20.39	23.38	29.59	37.23
50	18.31	20.43	22.43	20.29	23.21	29.23	38.35
100	18.28	20.36	22.29	20.17	22.95	28.56	41.09
200	18.07	20.06	21.86	19.97	22.63	27.69	36.41
300	18.09	20.15	21.93	20.31	23.23	28.51	31.23
400	18.47	20.71	22.64	21.01	24.38	30.62	29.69
500	18.56	20.85	22.86	21.25	24.82	31.63	29.64
600	18.63	20.93	22.97	21.44	25.15	31.97	29.01
700	18.99	21.40	23.58	21.98	25.97	33.02	28.12
800	19.33	21.85	24.13	22.49	26.78	34.09	27.62
900	19.53	22.13	24.47	22.90	27.43	34.39	27.05
1000	19.83	22.55	25.03	23.44	28.47	35.17	26.40
1100	20.06	22.82	25.46	23.82	29.25	36.62	26.23
1200	20.03	22.81	25.48	23.89	29.40	37.60	26.29
1300	20.09	22.80	25.47	23.91	29.52	37.47	26.43
1400	20.00	22.68	25.24	23.84	29.27	36.87	26.72
1500	19.75	22.36	24.70	23.59	28.68	34.92	27.15
1600	19.70	22.32	24.56	23.69	28.70	33.71	26.97
1700	20.03	22.77	24.98	24.31	29.82	32.52	26.10
1800	20.13	23.01	25.02	24.78	30.33	30.66	25.26
1900	20.10	23.06	24.91	25.11	30.47	29.20	24.54
2000	20.59	23.77	25.48	26.23	31.58	27.78	23.48
2100	21.06	24.62	26.08	27.59	32.35	26.40	22.41
2200	21.38	25.27	26.21	28.90	31.78	25.06	21.39
2300	21.65	25.92	26.23	30.16	30.22	23.54	20.31
2400	22.51	27.59	27.30	33.12	28.81	22.29	19.21
2500	24.08	31.02	29.98	39.92	27.70	21.30	18.28
2600	26.89	38.19	33.61	36.39	25.79	20.32	17.42
2800	30.00	27.53	29.33	25.20	21.96	18.43	15.90
3000	21.78	19.47	20.48	18.79	17.92	16.33	14.42
3200	17.02	15.59	16.26	15.34	15.14	14.64	13.30
3600	15.05	13.88	14.17	13.40	13.16	13.07	12.18
4000	26.54	21.05	21.08	19.58	17.76	16.01	13.78
4500	21.35	19.62	22.34	21.98	21.83	19.64	15.82
5000	29.37	22.29	23.29	21.40	18.75	15.82	13.49
5500	16.39	14.48	15.87	15.36	15.44	14.15	12.21
6000	8.10	7.66	8.45	8.47	9.24	9.96	8.69



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Recommended replacement part: DAT-15R5A-PN+

# Digital Step Attenuator

# DAT-15R5-PN+

## 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	18.31	19.39	19.76	26.14	38.33	58.44	26.14
1	18.32	19.40	19.78	26.16	38.28	59.39	26.17
5	18.35	19.44	19.81	26.19	38.42	58.32	26.16
10	18.35	19.43	19.82	26.18	38.27	59.83	26.18
50	18.28	19.34	19.70	25.90	37.10	57.65	26.62
100	18.21	19.23	19.56	25.53	35.24	44.34	27.30
200	18.15	19.15	19.48	24.93	31.16	33.49	26.52
300	18.22	19.31	19.73	25.03	29.39	30.18	24.25
400	18.50	19.72	20.18	25.90	29.72	29.41	23.16
500	18.96	20.24	20.76	26.92	29.95	28.86	22.59
600	19.39	20.72	21.29	27.86	29.92	28.33	22.11
700	19.60	21.02	21.60	28.63	30.21	28.20	21.89
800	19.69	21.14	21.76	28.95	30.11	27.93	21.72
900	19.89	21.42	22.06	29.37	29.54	27.36	21.42
1000	20.04	21.63	22.31	29.90	29.40	27.04	21.17
1100	20.16	21.79	22.54	30.60	29.57	26.90	21.05
1200	20.31	21.97	22.76	31.26	29.60	26.81	20.96
1300	20.32	21.99	22.77	31.23	29.59	26.84	21.01
1400	20.31	22.06	22.81	30.95	29.00	26.48	20.88
1500	20.35	22.10	22.87	30.56	28.36	26.02	20.71
1600	20.24	22.03	22.82	30.07	27.94	25.68	20.61
1700	20.17	22.01	22.79	29.30	27.13	25.10	20.38
1800	20.28	22.23	23.04	28.65	26.07	24.25	19.94
1900	20.35	22.47	23.24	28.11	25.21	23.58	19.55
2000	20.13	22.30	23.04	27.10	24.40	22.91	19.21
2100	19.83	22.06	22.74	25.78	23.28	21.96	18.69
2200	19.68	21.97	22.53	24.19	21.74	20.61	17.82
2300	19.58	21.89	22.33	22.82	20.36	19.38	16.93
2400	19.55	21.86	22.13	21.80	19.32	18.33	16.13
2500	19.80	22.15	22.35	21.38	18.77	17.70	15.59
2600	21.14	23.98	24.08	22.03	18.72	17.45	15.23
2800	24.66	28.61	27.25	21.77	17.87	16.38	14.29
3000	28.74	39.98	34.87	24.01	18.95	17.01	14.58
3200	24.09	24.93	27.14	28.53	22.10	19.02	15.57
3600	14.19	14.03	14.57	16.34	18.17	18.57	17.10
4000	14.67	13.91	14.26	15.06	15.68	15.85	15.35
4500	17.42	16.35	17.01	17.83	18.13	17.70	16.13
5000	22.54	19.52	20.26	19.30	17.12	15.65	13.82
5500	14.21	12.82	13.43	13.07	12.30	11.29	9.86
6000	9.18	8.84	9.41	9.54	9.83	9.56	8.30



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**Recommended replacement part: DAT-15R5A-PN+  
Digital Step Attenuator DAT-15R5-PN+**

**Typical Performance Data**

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

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	1.34	0.52	1.02	2.04	4.02	7.95	15.49
1	1.34	0.52	1.01	2.03	4.02	7.94	15.47
5	1.35	0.53	1.01	2.03	4.02	7.95	15.48
10	1.36	0.52	1.01	2.03	4.02	7.97	15.49
50	1.37	0.52	1.01	2.04	4.02	7.95	15.48
100	1.40	0.53	1.02	2.04	4.03	7.96	15.49
200	1.44	0.53	1.01	2.04	4.02	7.96	15.49
300	1.47	0.53	1.02	2.04	4.02	7.97	15.48
400	1.50	0.52	1.01	2.03	4.03	7.96	15.48
500	1.52	0.53	1.03	2.05	4.04	7.98	15.49
600	1.55	0.53	1.02	2.05	4.05	7.98	15.49
700	1.55	0.51	1.02	2.06	4.07	7.98	15.51
800	1.57	0.52	1.02	2.07	4.08	8.01	15.53
900	1.59	0.53	1.03	2.08	4.10	8.01	15.54
1000	1.67	0.52	1.01	2.07	4.08	7.99	15.49
1100	1.74	0.53	1.02	2.07	4.07	7.97	15.48
1200	1.80	0.52	1.00	2.04	4.04	7.95	15.44
1300	1.83	0.52	1.01	2.05	4.05	7.96	15.44
1400	1.90	0.53	1.02	2.06	4.03	7.94	15.42
1500	1.98	0.52	1.02	2.05	4.04	7.94	15.38
1600	2.03	0.50	1.00	2.05	4.04	7.92	15.37
1700	2.02	0.52	1.02	2.08	4.08	7.97	15.44
1800	2.03	0.52	1.03	2.10	4.09	7.99	15.47
1900	2.09	0.54	1.03	2.11	4.10	7.97	15.44
2000	2.16	0.52	1.00	2.11	4.08	7.95	15.42
2100	2.24	0.53	1.01	2.09	4.08	8.00	15.42
2200	2.31	0.54	1.03	2.14	4.10	8.02	15.49
2300	2.42	0.51	1.01	2.09	4.06	7.99	15.45
2400	2.48	0.54	1.03	2.13	4.10	8.00	15.49
2500	2.59	0.53	1.03	2.13	4.06	7.95	15.37
2600	2.63	0.55	1.04	2.11	4.08	7.96	15.34
2800	2.86	0.59	1.05	2.19	4.11	7.97	15.33
3000	3.27	0.54	1.04	2.11	3.97	7.79	14.92
3200	3.47	0.57	1.03	2.06	3.89	7.62	14.53
3600	4.24	0.60	1.06	2.12	3.95	7.73	15.05
4000	4.37	0.67	1.15	2.29	4.25	8.17	16.29
4500	3.64	0.65	1.14	2.28	4.15	7.77	15.08
5000	3.80	0.77	1.24	2.39	4.21	7.62	14.33
5500	4.67	0.94	1.37	2.50	4.24	7.79	15.22
6000	6.23	0.97	1.24	2.42	4.05	7.43	15.03

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



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# Recommended replacement part: DAT-15R5A-PN+ Digital Step Attenuator DAT-15R5-PN+

## 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	17.10	18.65	20.00	17.86	19.35	21.84	28.72
1	17.12	18.67	20.02	17.88	19.37	21.86	28.76
5	17.16	18.71	20.05	17.91	19.40	21.89	28.84
10	17.14	18.70	20.04	17.91	19.40	21.90	28.85
50	17.13	18.68	20.03	17.91	19.41	21.92	28.88
100	17.17	18.74	20.09	17.98	19.49	22.03	29.08
200	17.24	18.81	20.18	18.08	19.64	22.22	29.39
300	17.37	18.96	20.31	18.26	19.84	22.48	29.88
400	17.55	19.16	20.55	18.50	20.13	22.87	30.62
500	17.71	19.33	20.75	18.72	20.40	23.23	31.36
600	17.86	19.51	20.96	18.95	20.69	23.63	32.17
700	18.05	19.74	21.21	19.22	21.03	24.09	33.26
800	18.25	19.96	21.48	19.47	21.34	24.53	34.45
900	18.38	20.12	21.66	19.67	21.62	24.91	35.44
1000	18.48	20.22	21.75	19.83	21.82	25.20	36.38
1100	18.53	20.28	21.81	19.92	21.93	25.33	36.55
1200	18.54	20.27	21.79	20.03	22.02	25.43	36.49
1300	18.55	20.29	21.75	20.10	22.12	25.43	35.87
1400	18.52	20.26	21.66	20.18	22.18	25.39	35.19
1500	18.42	20.15	21.47	20.19	22.16	25.19	33.89
1600	18.38	20.11	21.35	20.27	22.27	25.25	33.52
1700	18.51	20.33	21.47	20.60	22.72	25.59	33.08
1800	18.54	20.40	21.42	20.91	23.05	25.64	31.53
1900	18.49	20.42	21.28	21.15	23.38	25.61	30.11
2000	18.60	20.66	21.36	21.67	23.99	25.85	28.80
2100	18.77	20.96	21.51	22.38	24.82	25.99	27.18
2200	19.10	21.50	21.87	23.40	25.96	25.99	25.49
2300	19.57	22.27	22.43	24.64	27.26	25.61	23.97
2400	20.52	23.77	23.66	26.89	29.25	25.21	22.61
2500	22.26	26.47	26.06	31.26	31.71	24.68	21.37
2600	24.87	31.27	29.76	44.31	31.15	23.60	20.15
2800	30.93	29.46	32.57	26.87	24.46	20.98	18.00
3000	22.11	20.04	21.31	19.30	19.02	18.16	16.16
3200	17.58	16.31	17.14	15.96	16.06	16.16	14.87
3600	16.10	14.95	15.45	14.47	14.41	14.71	13.79
4000	27.33	22.84	24.25	22.35	20.98	19.73	16.54
4500	23.66	23.05	27.57	25.79	26.72	24.46	19.21
5000	39.16	25.29	24.82	22.40	19.65	16.88	14.52
5500	15.72	14.22	15.43	14.78	15.13	14.76	12.76
6000	8.25	7.93	8.68	8.58	9.33	10.30	9.31



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**Not recommended for new designs.**

**Recommended replacement part: DAT-15R5A-PN+  
Digital Step Attenuator DAT-15R5-PN+**

**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	17.10	17.75	17.81	22.02	26.10	26.94	55.76
1	17.12	17.77	17.83	22.03	26.12	26.93	56.79
5	17.14	17.79	17.87	22.07	26.15	26.97	56.14
10	17.14	17.80	17.86	22.06	26.12	26.95	55.44
50	17.15	17.80	17.87	22.06	26.06	26.93	48.51
100	17.17	17.85	17.91	22.10	26.17	27.00	43.07
200	17.31	17.97	18.06	22.30	26.30	27.19	37.72
300	17.49	18.17	18.26	22.53	26.57	27.50	34.72
400	17.66	18.39	18.49	22.82	26.86	27.83	32.60
500	17.94	18.67	18.80	23.24	27.28	28.29	31.06
600	18.18	18.94	19.08	23.63	27.72	28.71	30.09
700	18.42	19.22	19.36	24.05	28.17	29.21	29.36
800	18.60	19.42	19.60	24.35	28.50	29.59	28.79
900	18.79	19.63	19.82	24.68	28.77	29.96	28.35
1000	18.92	19.80	20.01	24.92	28.97	30.11	28.02
1100	18.96	19.85	20.07	24.94	28.95	30.12	27.82
1200	18.94	19.86	20.05	24.85	28.57	29.77	27.51
1300	18.84	19.78	20.00	24.58	27.99	29.20	27.16
1400	18.70	19.66	19.91	24.24	27.30	28.43	26.54
1500	18.50	19.50	19.75	23.81	26.49	27.61	25.85
1600	18.34	19.37	19.65	23.44	25.69	26.74	25.02
1700	18.27	19.34	19.66	23.10	24.84	25.74	24.05
1800	18.24	19.38	19.71	22.73	23.96	24.75	22.94
1900	18.20	19.40	19.74	22.32	23.05	23.70	21.82
2000	18.15	19.47	19.82	21.87	22.13	22.65	20.74
2100	18.12	19.53	19.91	21.44	21.30	21.72	19.70
2200	18.20	19.73	20.09	21.03	20.48	20.74	18.68
2300	18.30	19.96	20.34	20.68	19.77	19.89	17.81
2400	18.49	20.23	20.60	20.42	19.21	19.18	17.10
2500	18.97	20.79	21.19	20.64	19.11	18.94	16.74
2600	20.28	22.54	22.95	21.55	19.35	18.86	16.44
2800	23.28	26.75	26.78	22.47	19.19	18.23	15.76
3000	26.20	32.06	33.39	26.04	20.98	19.39	16.40
3200	23.35	24.49	25.92	35.83	25.99	22.45	17.79
3600	14.13	13.95	14.28	16.45	18.55	19.48	19.59
4000	15.03	14.47	14.72	16.18	17.32	17.81	18.10
4500	19.94	18.98	19.54	21.99	23.06	22.45	20.44
5000	26.40	22.25	22.56	21.87	18.81	17.19	15.15
5500	14.02	12.84	13.27	13.41	12.92	12.04	10.67
6000	9.07	8.84	9.25	9.80	10.39	10.31	9.25



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**Not recommended for new designs.**

**Recommended replacement part: DAT-15R5A-PN+  
Digital Step Attenuator DAT-15R5-PN+**

**Typical Performance Data**

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

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	1.51	0.51	0.99	2.00	3.98	7.86	15.27
1	1.50	0.51	0.99	2.00	3.97	7.85	15.27
5	1.53	0.50	0.97	1.98	3.95	7.85	15.27
10	1.53	0.51	0.98	2.00	3.97	7.83	15.28
50	1.54	0.52	0.99	2.00	3.97	7.85	15.27
100	1.57	0.53	0.99	2.00	3.97	7.85	15.29
200	1.62	0.50	0.99	1.99	3.96	7.85	15.28
300	1.67	0.52	0.99	2.00	3.96	7.86	15.27
400	1.72	0.52	1.00	2.01	3.96	7.86	15.28
500	1.78	0.51	0.99	2.01	3.97	7.82	15.26
600	1.81	0.51	0.98	2.01	3.98	7.85	15.25
700	1.81	0.51	0.98	2.03	3.99	7.85	15.28
800	1.85	0.48	0.96	2.02	3.98	7.84	15.26
900	1.88	0.50	0.98	2.03	4.00	7.87	15.28
1000	1.98	0.50	0.96	2.01	3.98	7.85	15.24
1100	2.05	0.47	0.96	2.00	3.96	7.83	15.21
1200	2.09	0.50	0.98	2.02	3.97	7.84	15.22
1300	2.14	0.49	0.97	2.02	3.96	7.82	15.22
1400	2.22	0.50	0.97	2.02	3.97	7.82	15.19
1500	2.30	0.52	0.98	2.02	3.95	7.80	15.19
1600	2.35	0.49	0.98	2.02	3.98	7.81	15.19
1700	2.33	0.52	1.01	2.06	4.01	7.83	15.23
1800	2.36	0.51	1.00	2.06	4.01	7.88	15.24
1900	2.43	0.50	0.98	2.06	4.00	7.82	15.24
2000	2.49	0.51	1.00	2.08	4.00	7.85	15.24
2100	2.58	0.51	0.99	2.07	4.00	7.86	15.24
2200	2.64	0.53	1.02	2.10	4.03	7.88	15.29
2300	2.75	0.52	1.01	2.08	4.01	7.86	15.28
2400	2.82	0.55	1.03	2.09	4.04	7.88	15.30
2500	2.93	0.53	1.01	2.07	3.99	7.83	15.19
2600	2.96	0.54	1.03	2.12	4.01	7.86	15.19
2800	3.24	0.55	1.04	2.10	4.00	7.84	15.17
3000	3.67	0.54	1.01	2.03	3.88	7.63	14.70
3200	3.85	0.57	0.98	2.05	3.81	7.49	14.36
3600	4.72	0.59	1.02	2.09	3.89	7.68	15.10
4000	4.79	0.64	1.08	2.24	4.14	8.01	16.09
4500	4.13	0.67	1.12	2.24	4.07	7.63	14.89
5000	4.36	0.76	1.22	2.35	4.12	7.51	14.21
5500	5.30	0.95	1.32	2.42	4.10	7.58	14.87
6000	6.93	0.93	1.21	2.34	3.91	7.27	14.82

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



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Not recommended for new designs.

# Recommended replacement part: DAT-15R5A-PN+ Digital Step Attenuator DAT-15R5-PN+

## 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	16.10	17.29	18.28	16.18	17.03	18.40	22.15
1	16.13	17.32	18.30	16.21	17.05	18.42	22.16
5	16.14	17.35	18.32	16.23	17.07	18.44	22.21
10	16.13	17.34	18.32	16.22	17.07	18.44	22.22
50	16.13	17.34	18.34	16.26	17.13	18.54	22.33
100	16.23	17.46	18.48	16.42	17.32	18.79	22.76
200	16.43	17.69	18.75	16.65	17.62	19.20	23.41
300	16.54	17.79	18.84	16.73	17.65	19.17	23.24
400	16.65	17.87	18.89	16.75	17.62	19.03	22.94
500	16.75	17.95	18.97	16.84	17.67	19.07	22.87
600	16.92	18.12	19.12	17.01	17.86	19.25	23.09
700	17.10	18.32	19.34	17.22	18.07	19.49	23.35
800	17.26	18.47	19.49	17.38	18.25	19.65	23.54
900	17.32	18.53	19.54	17.51	18.37	19.78	23.66
1000	17.35	18.57	19.56	17.62	18.50	19.92	23.83
1100	17.36	18.58	19.55	17.73	18.62	20.07	23.98
1200	17.34	18.57	19.50	17.80	18.74	20.21	24.15
1300	17.29	18.54	19.45	17.88	18.84	20.28	24.24
1400	17.22	18.47	19.34	17.92	18.89	20.33	24.19
1500	17.10	18.32	19.12	17.91	18.89	20.28	24.01
1600	17.02	18.28	19.03	17.97	18.98	20.38	24.11
1700	17.08	18.38	19.04	18.22	19.27	20.64	24.42
1800	17.05	18.39	18.95	18.42	19.53	20.83	24.55
1900	16.99	18.39	18.83	18.63	19.78	21.02	24.65
2000	17.08	18.57	18.92	19.06	20.31	21.52	25.10
2100	17.24	18.84	19.07	19.63	20.99	22.08	25.34
2200	17.60	19.35	19.45	20.51	22.03	22.87	25.49
2300	18.11	20.10	20.05	21.64	23.32	23.65	25.18
2400	19.15	21.52	21.26	23.51	25.41	24.74	24.68
2500	20.93	24.04	23.38	26.86	28.97	25.80	23.86
2600	23.46	27.83	26.41	33.26	34.00	26.18	22.69
2800	31.22	31.33	37.99	28.68	27.23	23.84	20.15
3000	22.58	20.64	22.37	19.91	20.07	20.05	17.90
3200	18.08	16.86	17.98	16.54	16.89	17.60	16.36
3600	17.32	16.12	16.88	15.64	15.68	16.32	15.36
4000	25.91	23.78	26.99	24.43	24.19	24.14	19.54
4500	24.20	25.77	31.86	29.75	34.31	30.60	22.97
5000	40.48	27.50	25.46	23.30	20.54	17.81	15.42
5500	15.52	14.15	15.41	14.58	15.05	15.13	13.19
6000	8.48	8.22	8.97	8.77	9.47	10.54	9.78



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Not recommended for new designs.

# Recommended replacement part: DAT-15R5A-PN+ Digital Step Attenuator DAT-15R5-PN+

## 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	16.09	16.49	16.41	19.59	21.88	21.60	28.49
1	16.11	16.50	16.42	19.59	21.88	21.60	28.46
5	16.13	16.54	16.45	19.62	21.90	21.62	28.49
10	16.12	16.54	16.45	19.62	21.89	21.61	28.47
50	16.16	16.57	16.49	19.68	21.97	21.72	28.68
100	16.29	16.71	16.65	19.91	22.32	22.12	29.50
200	16.54	16.99	16.94	20.33	22.90	22.75	30.93
300	16.66	17.08	17.01	20.38	22.87	22.64	30.54
400	16.76	17.18	17.10	20.41	22.74	22.42	29.57
500	16.98	17.38	17.30	20.59	22.86	22.47	29.08
600	17.20	17.61	17.52	20.85	23.11	22.71	29.07
700	17.39	17.80	17.72	21.06	23.30	22.90	29.06
800	17.47	17.90	17.82	21.13	23.32	22.95	28.74
900	17.56	18.01	17.94	21.21	23.32	22.98	28.23
1000	17.65	18.10	18.03	21.24	23.29	23.05	27.83
1100	17.62	18.10	18.07	21.19	23.18	23.05	27.44
1200	17.56	18.11	18.08	21.12	23.04	23.02	26.90
1300	17.47	18.01	18.01	20.97	22.80	22.89	26.33
1400	17.32	17.90	17.94	20.74	22.52	22.70	25.63
1500	17.10	17.75	17.79	20.43	22.07	22.39	24.81
1600	16.97	17.62	17.72	20.19	21.66	22.06	23.98
1700	16.87	17.61	17.71	19.98	21.25	21.74	23.09
1800	16.83	17.63	17.75	19.74	20.84	21.36	22.16
1900	16.80	17.66	17.81	19.53	20.36	20.97	21.19
2000	16.76	17.70	17.89	19.30	19.88	20.58	20.34
2100	16.77	17.80	18.03	19.10	19.47	20.21	19.50
2200	16.88	18.04	18.29	18.96	19.05	19.74	18.69
2300	17.07	18.32	18.60	18.86	18.70	19.34	17.95
2400	17.33	18.66	18.99	18.91	18.46	19.00	17.42
2500	17.97	19.43	19.76	19.40	18.70	19.13	17.24
2600	19.22	21.06	21.42	20.43	19.17	19.36	17.08
2800	22.11	24.85	25.12	22.02	19.61	19.27	16.67
3000	24.84	28.91	29.78	26.16	22.07	21.12	17.67
3200	22.66	23.60	24.62	40.13	30.42	26.42	19.91
3600	14.11	13.96	14.16	16.55	18.69	19.76	21.81
4000	15.49	15.00	15.19	17.14	18.62	19.12	20.87
4500	21.87	21.43	22.06	27.20	31.39	29.76	25.72
5000	30.49	24.26	24.35	23.12	19.50	18.00	15.84
5500	14.03	13.00	13.33	13.81	13.50	12.67	11.39
6000	9.18	9.03	9.39	10.25	10.99	11.02	10.23



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