

# Voltage Variable Equalizer, 50Ω

# VAEQ-1000+

## Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) Vcontrol		Input Return Loss (dB) Vcontrol		Output Return Loss (dB) Vcontrol		Deviation from Linear (dB) Vcontrol		Insertion Phase (deg) Vcontrol		Frequency (MHz)	Input IP3 (dBm) Vcontrol	
	1V	10V	1V	10V	1V	10V	1V	10V	1V	10V		1V	10V
50	15.41	2.10	23.76	28.70	-23.68	28.76	1.20	-0.27	12.99	-3.28	50	36.73	46.48
60	15.26	2.09	23.61	30.29	-23.50	30.38	1.20	-0.28	12.43	-5.13	100	43.32	47.18
70	15.11	2.08	23.31	31.70	-23.18	31.82	1.20	-0.29	12.17	-6.85	200	48.87	46.63
80	14.94	2.08	22.92	33.05	-22.78	33.15	1.18	-0.29	12.06	-8.47	300	49.29	47.62
90	14.76	2.08	22.48	34.31	-22.34	34.43	1.14	-0.29	12.00	-10.03	400	45.80	46.51
100	14.57	2.08	22.02	35.57	-21.89	35.64	1.10	-0.29	11.96	-11.54	500	43.01	45.87
120	14.16	2.08	21.11	38.12	-20.97	37.96	0.98	-0.29	11.76	-14.47	600	44.56	46.33
140	13.72	2.09	20.26	40.65	-20.09	40.12	0.84	-0.28	11.33	-17.32	700	42.19	46.04
150	13.50	2.10	19.86	42.01	-19.68	41.01	0.76	-0.27	11.01	-18.73	800	45.44	45.98
180	12.81	2.11	18.73	44.27	-18.54	41.75	0.51	-0.26	9.63	-22.89	900	46.64	46.9
190	12.58	2.12	18.37	44.06	-18.18	41.29	0.43	-0.25	9.02	-24.26	1000	45.32	48.86
200	12.35	2.13	18.02	43.40	-17.84	40.52	0.35	-0.24	8.33	-25.63			
220	11.89	2.14	17.34	41.20	-17.18	38.86	0.18	-0.23	6.72	-28.35			
240	11.45	2.16	16.73	38.93	-16.57	37.36	0.04	-0.21	4.87	-31.06			
250	11.23	2.17	16.44	37.92	-16.29	36.57	-0.04	-0.20	3.88	-32.41			
280	10.59	2.20	15.66	35.37	-15.52	34.47	-0.24	-0.17	0.67	-36.44			
300	10.17	2.22	15.18	33.99	-15.05	33.10	-0.36	-0.15	-1.74	-39.12			
320	9.77	2.25	14.73	32.79	-14.60	31.85	-0.47	-0.12	-4.38	-41.78			
340	9.39	2.28	14.31	31.59	-14.17	30.70	-0.55	-0.09	-7.17	-44.45			
350	9.21	2.29	14.12	31.00	-13.97	30.15	-0.59	-0.08	-8.58	-45.78			
380	8.68	2.35	13.58	29.32	-13.44	28.66	-0.68	-0.02	-12.85	-49.73			
400	8.33	2.39	13.25	28.28	-13.14	27.68	-0.73	0.02	-15.85	-52.33			
420	7.99	2.44	12.95	27.28	-12.84	26.68	-0.78	0.07	-19.06	-54.92			
440	7.68	2.49	12.68	26.22	-12.55	25.69	-0.79	0.12	-22.38	-57.49			
450	7.54	2.51	12.55	25.79	-12.41	25.20	-0.79	0.14	-24.03	-58.78			
480	7.10	2.61	12.21	24.35	-12.04	23.75	-0.79	0.24	-28.85	-62.56			
500	6.80	2.68	12.01	23.40	-11.86	22.83	-0.79	0.31	-32.20	-65.00			
520	6.52	2.75	11.82	22.44	-11.70	21.90	-0.78	0.38	-35.76	-67.38			
540	6.28	2.82	11.66	21.41	-11.54	20.98	-0.72	0.45	-39.34	-69.70			
550	6.16	2.86	11.59	20.93	-11.46	20.53	-0.70	0.49	-41.09	-70.83			
580	5.79	3.00	11.42	19.42	-11.26	19.15	-0.63	0.63	-46.27	-74.00			
600	5.54	3.08	11.34	18.42	-11.19	18.23	-0.58	0.71	-49.87	-75.91			
620	5.30	3.16	11.27	17.40	-11.17	17.32	-0.53	0.79	-53.57	-77.65			
640	5.09	3.22	11.22	16.44	-11.15	16.41	-0.44	0.85	-57.25	-79.23			
650	4.98	3.24	11.22	15.97	-11.14	15.97	-0.41	0.87	-59.08	-79.93			
680	4.65	3.24	11.25	14.66	-11.15	14.74	-0.30	0.87	-64.60	-81.67			
700	4.44	3.15	11.31	13.87	-11.21	14.03	-0.21	0.78	-68.37	-82.85			
720	4.23	3.01	11.41	13.22	-11.35	13.42	-0.13	0.64	-72.14	-84.27			
740	4.02	2.85	11.52	12.66	-11.53	12.94	-0.04	0.48	-75.90	-85.88			
750	3.91	2.75	11.60	12.44	-11.64	12.75	-0.01	0.38	-77.81	-86.77			
780	3.59	2.41	11.96	12.00	-12.02	12.35	0.11	0.04	-83.66	-89.95			
800	3.37	2.18	12.27	11.85	-12.32	12.23	0.19	-0.19	-87.66	-92.77			
820	3.14	2.00	12.67	11.77	-12.72	12.21	0.25	-0.37	-91.71	-95.94			
840	2.91	1.90	13.14	11.76	-13.27	12.23	0.32	-0.47	-95.89	-99.20			
850	2.79	1.85	13.42	11.77	-13.61	12.25	0.34	-0.53	-98.04	-100.76			
880	2.42	1.72	14.47	11.86	-14.88	12.34	0.41	-0.66	-104.85	-105.42			
900	2.18	1.63	15.28	11.89	-15.87	12.38	0.47	-0.75	-109.81	-108.77			
920	1.96	1.61	16.14	11.87	-16.86	12.38	0.54	-0.77	-115.06	-112.47			
940	1.78	1.69	16.70	11.79	-17.65	12.28	0.66	-0.69	-120.63	-116.09			
950	1.71	1.78	16.76	11.71	-17.81	12.18	0.73	-0.60	-123.52	-117.69			
980	1.58	2.05	15.76	12.43	-17.03	13.05	1.05	-0.33	-132.60	-119.08			
1000	1.60	1.64	14.51	13.72	-15.74	14.40	1.36	-0.74	-138.90	-121.24			



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