

Frequency Mixer

ADE-EDR4983/2

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
150.0	250.1	6.41	6.43	6.26	100.0	56.5	58.3	60.4	54.8	54.4	53.5
216.7	366.8	6.37	6.41	6.25	131.1	53.9	56.6	58.6	54.0	54.5	53.1
250.0	150.1	6.15	6.24	6.21	162.2	52.4	55.0	56.8	54.3	53.4	51.6
283.3	483.4	6.39	6.36	6.23	193.3	51.3	53.5	54.9	53.9	51.6	49.5
350.0	600.1	6.46	6.39	6.22	224.4	50.2	52.4	54.0	53.3	51.4	49.8
366.7	216.8	5.95	6.09	6.06	255.6	49.2	51.0	52.6	51.5	50.2	48.8
400.0	500.1	6.20	6.20	6.10	286.7	48.3	49.8	51.2	50.0	48.8	47.4
420.0	550.1	6.18	6.16	6.07	317.8	47.3	49.4	50.9	48.9	48.4	47.6
440.0	600.1	6.28	6.25	6.09	348.9	46.8	48.4	49.7	47.2	47.4	47.1
460.0	650.1	6.21	6.20	6.04	380.0	45.7	47.4	48.8	46.1	45.9	45.6
480.0	700.1	6.20	6.25	6.15	400.0	45.2	46.6	48.1	45.6	45.8	45.6
483.3	283.4	5.84	5.99	5.98	414.3	45.3	46.6	48.2	45.1	45.8	46.2
500.0	750.1	6.24	6.19	6.12	428.6	45.1	46.8	48.1	44.7	45.4	46.1
500.0	400.1	5.86	6.00	5.97	442.9	44.5	46.5	48.1	44.1	44.8	45.5
500.0	750.1	6.16	6.18	6.03	457.1	43.9	45.7	47.2	43.8	44.4	44.8
550.0	650.1	6.05	6.05	5.93	471.4	43.4	44.9	46.4	43.3	43.9	43.9
550.0	420.1	5.84	5.94	5.92	485.7	43.2	44.7	46.1	43.3	44.1	44.2
587.5	725.1	6.16	6.16	6.09	500.0	43.1	44.6	46.0	43.3	44.6	45.2
587.5	800.1	6.17	6.19	6.00	550.0	43.0	45.2	46.3	41.8	43.3	44.3
600.0	350.1	5.88	6.00	6.01	571.4	42.1	43.9	45.0	41.2	42.6	43.5
600.0	440.1	5.92	6.03	5.98	592.9	41.8	43.4	44.7	40.9	42.2	42.9
625.0	800.1	6.21	6.20	6.06	614.3	41.6	43.2	44.7	41.1	43.0	44.0
650.0	460.1	5.80	5.99	5.88	635.7	41.0	42.5	44.2	40.7	42.9	44.4
650.0	550.1	5.83	5.95	5.79	657.1	40.6	42.0	43.1	40.1	42.4	43.8
662.5	875.1	6.26	6.26	6.17	678.6	41.2	42.4	43.2	39.3	41.5	43.1
675.0	850.1	6.16	6.22	6.04	700.0	41.8	43.4	44.5	38.8	40.9	42.8
700.0	950.1	6.24	6.27	6.20	750.0	39.7	41.7	42.8	37.8	39.8	41.6
700.0	480.1	5.88	6.05	5.96	768.2	39.0	40.9	42.0	37.3	39.4	41.0
725.0	587.6	5.90	6.05	5.93	786.4	38.8	40.7	42.3	37.0	39.0	40.6
750.0	500.1	5.95	6.03	6.01	804.6	38.3	40.3	42.2	37.1	38.9	40.2
750.0	500.1	5.86	6.02	5.91	822.7	37.8	39.7	41.2	37.0	39.3	40.7
762.5	900.1	6.23	6.25	6.09	840.9	37.3	39.0	40.2	36.9	39.3	40.8
800.0	587.6	6.08	6.18	6.14	859.1	36.9	38.5	39.7	36.6	38.8	40.4
800.0	625.1	6.04	6.18	6.07	877.3	36.6	38.4	40.0	35.9	37.8	39.2
850.0	675.1	6.12	6.21	6.22	895.5	36.4	38.3	40.2	35.5	37.2	38.5
850.0	950.1	6.22	6.24	6.09	913.6	36.4	38.2	39.7	34.8	36.5	38.0
875.0	662.6	6.15	6.32	6.22	931.8	36.3	38.0	38.8	34.4	36.0	37.4
900.0	762.6	6.45	6.48	6.38	950.0	36.6	38.0	38.6	34.1	35.6	36.8
950.0	850.1	6.66	6.67	6.51	980.0	37.0	38.4	39.2	33.4	34.8	35.6
950.0	700.1	6.28	6.40	6.28	1000.0	37.0	38.6	39.4	33.4	34.8	35.6

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Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
100.0	1.37	1.43	1.48	1.32	1.91	2.69	1.0	1.34	1.23	1.15
131.1	1.37	1.43	1.48	1.37	2.00	3.01	3.0	1.34	1.23	1.15
162.2	1.38	1.44	1.48	1.37	2.07	3.17	5.0	1.33	1.22	1.15
193.3	1.38	1.44	1.49	1.35	1.92	2.74	10.1	1.33	1.22	1.15
224.4	1.39	1.45	1.50	1.44	2.14	3.37	20.0	1.34	1.23	1.15
255.6	1.39	1.45	1.50	1.39	2.10	3.14	36.9	1.34	1.23	1.16
286.7	1.40	1.46	1.51	1.38	1.96	2.73	44.1	1.34	1.23	1.16
317.8	1.41	1.48	1.52	1.51	2.27	3.68	51.3	1.34	1.23	1.16
348.9	1.43	1.49	1.53	1.43	2.06	2.94	58.5	1.34	1.23	1.17
380.0	1.44	1.51	1.55	1.44	2.02	2.83	65.6	1.35	1.24	1.17
400.0	1.45	1.52	1.56	1.57	2.33	3.62	72.8	1.35	1.24	1.17
414.3	1.46	1.52	1.57	1.59	2.39	3.81	80.0	1.35	1.24	1.18
428.6	1.46	1.53	1.58	1.55	2.26	3.29	100.0	1.35	1.25	1.19
442.9	1.47	1.54	1.58	1.48	2.07	2.68	113.6	1.36	1.26	1.20
457.1	1.48	1.55	1.60	1.47	1.99	2.55	127.3	1.36	1.26	1.21
471.4	1.49	1.56	1.60	1.53	2.13	2.88	140.9	1.37	1.27	1.22
485.7	1.50	1.56	1.61	1.61	2.34	3.50	154.6	1.38	1.28	1.23
500.0	1.51	1.58	1.62	1.68	2.49	3.86	168.2	1.38	1.29	1.24
550.0	1.53	1.60	1.64	1.54	2.07	2.61	181.8	1.39	1.30	1.25
571.4	1.55	1.62	1.66	1.68	2.39	3.43	195.5	1.40	1.31	1.27
592.9	1.57	1.63	1.67	1.77	2.59	3.80	209.1	1.41	1.32	1.28
614.3	1.58	1.64	1.68	1.66	2.22	2.86	222.7	1.41	1.34	1.29
635.7	1.60	1.66	1.70	1.60	2.11	2.63	236.4	1.43	1.35	1.31
657.1	1.62	1.67	1.71	1.74	2.44	3.32	250.0	1.44	1.36	1.32
678.6	1.63	1.69	1.72	1.87	2.76	3.88	280.0	1.47	1.39	1.36
700.0	1.65	1.70	1.74	1.76	2.42	3.07	301.3	1.48	1.41	1.38
750.0	1.70	1.75	1.77	1.95	2.71	3.65	322.7	1.51	1.44	1.41
768.2	1.73	1.77	1.80	2.07	3.01	4.06	344.0	1.53	1.47	1.44
786.4	1.76	1.80	1.82	1.92	2.63	3.35	365.3	1.56	1.49	1.46
804.6	1.78	1.81	1.84	1.81	2.36	2.89	386.7	1.57	1.51	1.48
822.7	1.80	1.83	1.86	1.92	2.52	3.17	408.0	1.60	1.54	1.51
840.9	1.84	1.88	1.90	2.16	3.07	4.15	429.3	1.62	1.56	1.53
859.1	1.87	1.90	1.93	2.28	3.24	4.46	450.7	1.64	1.58	1.55
877.3	1.91	1.94	1.96	2.03	2.76	3.52	472.0	1.65	1.60	1.57
895.5	1.95	1.98	2.00	1.94	2.52	3.11	493.3	1.68	1.62	1.59
913.6	1.98	2.01	2.03	2.08	2.78	3.56	514.7	1.69	1.64	1.61
931.8	2.03	2.06	2.08	2.39	3.42	4.64	536.0	1.71	1.66	1.63
950.0	2.07	2.09	2.11	2.42	3.48	4.76	557.3	1.72	1.67	1.64
980.0	2.15	2.18	2.21	2.11	2.73	3.37	578.7	1.75	1.69	1.66
1000.0	2.20	2.22	2.24	2.28	3.02	3.82	600.0	1.76	1.70	1.67