

Frequency Mixer

ADE-92+

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)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
200.1	270.1	11.89	11.48	11.36	200.1	26.56	26.09	25.85	16.65	16.87	17.12
220.1	290.1	10.83	10.44	10.25	220.1	25.27	25.00	24.94	15.97	16.21	16.51
240.1	310.1	9.69	9.30	9.10	240.1	24.66	24.47	24.47	16.16	16.42	16.75
260.1	330.1	8.62	8.18	8.11	260.1	24.86	24.69	24.70	16.90	17.19	17.55
280.1	350.1	7.98	7.55	7.53	280.1	25.74	25.55	25.57	17.96	18.29	18.65
300.1	370.1	7.52	7.11	7.10	300.1	27.13	26.95	26.97	19.12	19.47	19.88
320.1	390.1	7.23	6.86	6.82	320.1	28.96	28.78	28.84	20.46	20.88	21.35
340.1	410.1	6.96	6.62	6.57	340.1	31.46	31.40	31.60	21.85	22.34	22.88
360.1	430.1	6.72	6.42	6.40	360.1	33.74	33.71	33.92	23.02	23.56	24.12
380.1	450.1	6.58	6.30	6.29	380.1	35.67	35.64	35.83	24.05	24.60	25.20
400.1	470.1	6.48	6.21	6.20	400.1	37.45	37.48	37.63	24.97	25.56	26.19
420.1	490.1	6.42	6.15	6.13	420.1	38.57	38.62	38.84	26.07	26.64	27.31
440.1	510.1	6.34	6.08	6.06	440.1	39.62	39.79	40.14	27.07	27.62	28.29
460.1	530.1	6.31	6.09	6.09	460.1	40.10	40.35	40.75	27.89	28.38	29.00
480.1	550.1	6.31	6.11	6.11	480.1	40.35	40.61	41.06	28.47	28.88	29.45
500.1	570.1	6.28	6.09	6.09	500.1	40.87	41.11	41.55	28.89	29.20	29.72
520.1	590.1	6.29	6.10	6.08	520.1	40.99	41.24	41.76	29.16	29.37	29.84
540.1	610.1	6.33	6.15	6.14	540.1	41.19	41.45	42.22	29.26	29.35	29.73
560.1	630.1	6.36	6.27	6.24	560.1	41.19	41.52	42.30	29.07	29.09	29.38
580.1	650.1	6.46	6.33	6.34	580.1	41.17	41.58	42.30	28.45	28.40	28.73
600.1	670.1	6.52	6.39	6.42	600.1	41.11	41.39	42.12	27.44	27.41	27.81
620.1	690.1	6.60	6.48	6.51	620.1	40.47	40.70	41.47	26.63	26.59	27.01
640.1	710.1	6.70	6.59	6.64	640.1	39.99	40.20	41.06	25.90	25.84	26.29
660.1	730.1	6.78	6.67	6.73	660.1	39.32	39.56	40.29	25.28	25.24	25.70
680.1	750.1	6.88	6.78	6.82	680.1	38.59	38.77	39.49	24.74	24.68	25.15
700.1	770.1	6.99	6.83	6.95	700.1	38.01	38.14	38.81	24.25	24.23	24.73
720.1	790.1	7.05	6.96	7.04	720.1	37.35	37.37	38.03	23.89	23.88	24.42
740.1	810.1	7.15	7.07	7.17	740.1	36.99	36.93	37.51	23.68	23.71	24.27
760.1	830.1	7.28	7.20	7.29	760.1	36.60	36.55	37.23	23.55	23.59	24.14
780.1	850.1	7.36	7.27	7.33	780.1	36.66	36.62	37.29	23.42	23.49	24.06
800.1	870.1	7.39	7.27	7.33	800.1	36.71	36.76	37.47	23.43	23.48	24.06
820.1	890.1	7.53	7.38	7.40	820.1	37.00	37.21	38.06	23.53	23.62	24.21
840.1	910.1	7.66	7.50	7.51	840.1	37.77	38.19	39.25	23.76	23.88	24.48
860.1	930.1	7.81	7.63	7.63	860.1	38.40	38.97	40.06	24.05	24.20	24.84
880.1	950.1	7.94	7.74	7.71	880.1	38.37	38.79	39.68	24.42	24.61	25.27
900.1	970.1	8.11	7.89	7.84	900.1	38.14	38.48	39.30	24.77	24.99	25.67
920.1	990.1	8.29	8.06	7.99	920.1	37.88	38.20	38.98	25.03	25.27	25.95
940.1	1010.1	8.44	8.19	8.11	940.1	37.74	38.06	38.66	25.17	25.35	25.96
960.1	1030.1	8.61	8.35	8.25	960.1	37.75	37.99	38.44	25.31	25.39	25.90
980.1	1050.1	8.79	8.51	8.38	980.1	37.73	37.88	38.32	25.61	25.64	26.02
1000.1	1070.1	9.01	8.72	8.58	1000.1	37.92	38.06	38.47	26.01	26.01	26.34
1020.1	1090.1	9.20	8.89	8.74	1020.1	38.08	38.21	38.69	26.50	26.52	26.75
1040.1	1110.1	9.38	9.06	8.90	1040.1	38.34	38.49	39.04	27.08	27.07	27.28
1060.1	1130.1	9.56	9.23	9.06	1060.1	38.64	38.76	39.19	27.64	27.66	27.86
1080.1	1150.1	9.80	9.46	9.27	1080.1	39.19	39.27	39.63	28.15	28.14	28.35
1100.1	1170.1	10.08	9.73	9.52	1100.1	39.91	39.99	40.10	28.59	28.60	28.85
1120.1	1190.1	10.28	9.92	9.71	1120.1	40.72	40.74	40.45	29.08	29.09	29.37
1140.1	1210.1	10.48	10.11	9.88	1140.1	41.47	41.50	40.82	29.65	29.64	29.96
1160.1	1230.1	10.70	10.32	10.07	1160.1	41.82	41.88	41.39	30.25	30.27	30.44
1180.1	1250.1	10.95	10.55	10.30	1180.1	42.36	42.37	42.25	30.74	30.76	30.81
1200.1	1270.1	11.21	10.80	10.56	1200.1	42.79	42.71	42.60	31.17	31.21	31.31

REV. X2
ADE-92+
101230
Page 1 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 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



Frequency Mixer

ADE-92+

Typical Performance Data

LO (MHz)	RF (MHz)	IP3 Input (dBm)		
		@LO (dBm)	@LO (dBm)	@LO (dBm)
		+4	+7	+10
270.1	200.1	12.59	15.94	17.93
290.1	220.1	14.53	22.04	18.62
310.1	240.1	13.47	18.34	16.96
330.1	260.1	9.89	11.84	16.15
350.1	280.1	9.89	11.37	16.68
370.1	300.1	10.97	12.88	17.63
390.1	320.1	11.59	14.07	18.27
410.1	340.1	11.87	14.24	18.76
430.1	360.1	12.46	14.66	19.16
450.1	380.1	13.05	15.29	19.39
470.1	400.1	13.41	15.22	19.62
490.1	420.1	13.45	15.08	19.85
510.1	440.1	13.78	15.46	20.10
530.1	460.1	14.85	16.35	20.67
550.1	480.1	16.00	18.07	21.27
570.1	500.1	17.59	21.58	22.30
590.1	520.1	18.63	22.04	22.90
610.1	540.1	18.60	19.98	23.42
630.1	560.1	18.21	19.53	24.31
650.1	580.1	19.74	21.23	25.68
670.1	600.1	21.57	23.28	27.57
690.1	620.1	24.26	25.20	28.71
710.1	640.1	24.48	29.29	28.63
730.1	660.1	23.75	29.37	28.46
750.1	680.1	22.23	27.42	28.30
770.1	700.1	19.58	23.91	26.13
790.1	720.1	18.39	21.36	24.55
810.1	740.1	18.98	20.70	24.34
830.1	760.1	21.72	22.99	25.79
850.1	780.1	22.62	27.33	29.27
870.1	800.1	21.57	26.02	28.20
890.1	820.1	22.27	28.03	27.96
910.1	840.1	23.68	30.06	28.53
930.1	860.1	22.81	27.58	28.36
950.1	880.1	21.22	25.41	27.70
970.1	900.1	20.71	23.43	27.45
990.1	920.1	21.05	23.96	27.57
1010.1	940.1	22.66	27.47	28.67
1030.1	960.1	21.85	30.13	28.51
1050.1	980.1	20.44	25.56	27.25
1070.1	1000.1	19.66	23.10	25.98
1090.1	1020.1	19.16	21.52	25.24
1110.1	1040.1	19.00	20.40	24.46
1130.1	1060.1	18.44	19.31	23.68
1150.1	1080.1	18.14	18.32	23.10
1170.1	1100.1	18.01	17.54	22.83
1190.1	1120.1	17.97	17.25	22.85
1210.1	1140.1	18.65	17.35	23.62
1230.1	1160.1	20.36	17.87	26.84
1250.1	1180.1	18.47	18.90	25.96
1270.1	1200.1	15.07	18.85	21.24

REV. X2
ADE-92+
101230
Page 2 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 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



Frequency Mixer

ADE-92+

Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
200.1	3.60	3.51	3.45	12.89	12.89	12.18	0.3	1.13	1.07	1.03
220.1	3.18	3.10	3.01	9.33	9.23	8.86	15.7	1.12	1.07	1.05
240.1	2.80	2.73	2.62	8.31	8.27	8.01	31.1	1.14	1.10	1.09
260.1	2.46	2.41	2.34	8.99	8.99	8.77	46.4	1.16	1.13	1.13
280.1	2.24	2.20	2.18	10.69	10.62	10.37	61.8	1.19	1.17	1.17
300.1	2.07	2.06	2.08	12.89	12.89	12.44	77.2	1.24	1.22	1.23
320.1	1.97	1.98	2.03	15.26	15.13	14.50	92.6	1.29	1.27	1.29
340.1	1.90	1.92	1.96	17.39	17.39	16.26	107.9	1.34	1.33	1.35
360.1	1.85	1.90	1.95	19.32	19.11	17.57	123.3	1.39	1.39	1.41
380.1	1.83	1.89	1.95	20.70	20.70	18.50	138.7	1.44	1.45	1.46
400.1	1.80	1.87	1.96	22.29	22.29	19.32	154.1	1.51	1.53	1.55
420.1	1.79	1.87	1.97	23.18	23.18	19.76	169.4	1.59	1.61	1.64
440.1	1.79	1.89	1.98	23.81	23.81	19.76	184.8	1.65	1.69	1.72
460.1	1.83	1.94	2.03	23.49	23.49	18.90	200.2	1.68	1.73	1.77
480.1	1.87	1.99	2.10	22.87	22.87	17.93	215.6	1.64	1.70	1.73
500.1	1.89	2.01	2.15	21.73	21.73	16.56	231.0	1.57	1.64	1.65
520.1	1.91	2.03	2.18	19.98	20.22	15.26	246.3	1.48	1.55	1.56
540.1	1.96	2.08	2.21	18.30	18.30	13.81	261.7	1.41	1.48	1.49
560.1	2.06	2.19	2.30	16.26	16.41	12.26	277.1	1.38	1.45	1.46
580.1	2.14	2.28	2.39	14.38	14.38	10.69	292.5	1.37	1.44	1.45
600.1	2.21	2.35	2.49	12.61	12.61	9.38	307.8	1.37	1.44	1.45
620.1	2.28	2.43	2.58	10.96	10.96	8.16	323.2	1.38	1.45	1.47
640.1	2.35	2.50	2.62	9.38	9.38	7.05	338.6	1.42	1.48	1.50
660.1	2.44	2.59	2.69	8.05	8.01	6.11	354.0	1.46	1.52	1.54
680.1	2.51	2.66	2.79	6.89	6.86	5.27	369.3	1.49	1.56	1.59
700.1	2.57	2.73	2.91	5.91	5.89	4.56	384.7	1.53	1.60	1.63
720.1	2.61	2.77	2.95	5.09	5.07	4.00	400.1	1.56	1.64	1.67
740.1	2.67	2.83	2.98	4.44	4.43	3.55	415.5	1.60	1.68	1.71
760.1	2.71	2.87	3.04	3.95	3.95	3.20	430.9	1.66	1.74	1.77
780.1	2.72	2.87	3.06	3.59	3.59	2.95	446.2	1.71	1.79	1.82
800.1	2.71	2.84	3.02	3.33	3.34	2.80	461.6	1.74	1.82	1.85
820.1	2.75	2.86	3.01	3.17	3.18	2.72	477.0	1.76	1.85	1.88
840.1	2.84	2.94	3.07	3.09	3.11	2.70	492.4	1.78	1.87	1.91
860.1	2.93	3.04	3.18	3.09	3.11	2.75	507.7	1.81	1.91	1.96
880.1	3.00	3.10	3.26	3.14	3.17	2.86	523.1	1.87	1.97	2.03
900.1	3.08	3.18	3.31	3.23	3.26	3.00	538.5	1.92	2.03	2.08
920.1	3.15	3.25	3.34	3.34	3.37	3.15	553.9	1.95	2.07	2.10
940.1	3.26	3.36	3.42	3.47	3.50	3.30	569.2	1.98	2.10	2.13
960.1	3.34	3.45	3.52	3.62	3.65	3.48	584.6	2.01	2.13	2.16
980.1	3.41	3.52	3.58	3.79	3.82	3.68	600.0	2.04	2.17	2.20
1000.1	3.50	3.60	3.63	3.95	3.98	3.87				
1020.1	3.60	3.70	3.70	4.11	4.13	4.05				
1040.1	3.70	3.81	3.80	4.27	4.29	4.22				
1060.1	3.79	3.90	3.90	4.42	4.44	4.39				
1080.1	3.88	4.01	4.00	4.57	4.59	4.56				
1100.1	3.99	4.11	4.09	4.70	4.73	4.73				
1120.1	4.11	4.26	4.22	4.82	4.84	4.87				
1140.1	4.22	4.37	4.36	4.92	4.93	4.98				
1160.1	4.33	4.48	4.48	5.03	5.04	5.09				
1180.1	4.41	4.57	4.61	5.13	5.14	5.20				
1200.1	4.51	4.70	4.75	5.22	5.23	5.31				

REV. X2
ADE-92+
101230
Page 3 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 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

