

Frequency Mixer (Upconverter)

SIM-U712H+

Typical Performance Data

IF INPUT (MHz)	LO INPUT (MHz)	RF OUTPUT (MHz)	CONVERSION LOSS (dB)			IP3 INPUT (dBm)			LO INPUT (MHz)	LO-IF ISOLATION (dB)			LO-RF ISOLATION (dB)		
			@LO (dBm)			@LO (dBm)				@LO (dBm)			@LO (dBm)		
			+14	+17	+20	+14	+17	+20		+14	+17	+20	+14	+17	+20
2600.1	30.0	2630.1	8.43	7.80	7.55	19.99	33.73	32.34	11.0	69.76	67.68	66.25	53.52	51.44	50.10
2800.1	30.0	2830.1	7.77	7.15	6.92	19.22	33.49	32.44	51.0	57.34	55.46	54.31	44.64	42.85	41.79
3000.1	30.0	3030.1	7.49	6.88	6.62	19.13	30.07	33.05	91.0	52.55	50.53	49.14	40.50	38.59	37.32
3200.1	30.0	3230.1	7.22	6.61	6.35	19.83	28.75	30.48	153.6	48.01	46.33	45.23	36.66	35.04	34.02
3400.1	30.0	3430.1	7.42	6.74	6.45	19.53	29.28	31.02	238.8	44.02	42.47	41.47	33.55	31.79	30.59
3600.1	30.0	3630.1	7.25	6.62	6.37	19.23	28.86	32.91	324.0	41.19	39.73	38.57	31.15	29.14	27.75
3800.1	30.0	3830.1	7.41	6.81	6.53	19.19	27.45	31.24	409.2	39.12	37.68	36.42	29.34	27.14	25.64
4000.1	30.0	4030.1	7.54	7.00	6.73	19.01	26.69	30.27	494.4	37.23	35.96	34.78	27.64	25.30	24.27
4200.1	30.0	4230.1	7.55	7.05	6.83	19.02	27.34	30.82	579.6	35.60	34.64	33.55	25.89	23.69	23.16
4400.1	30.0	4430.1	7.64	7.21	7.01	19.41	28.15	33.10	664.8	33.99	33.22	32.21	24.17	22.36	21.88
4600.1	30.0	4630.1	7.95	7.42	7.15	18.75	25.72	30.39	750.0	32.54	31.84	30.94	22.46	21.29	20.67
4800.1	30.0	4830.1	7.93	7.52	7.32	19.91	24.99	28.68	776.7	32.32	31.61	30.73	22.35	21.20	20.58
5000.1	30.0	5030.1	8.13	7.64	7.38	20.83	25.28	28.49	803.3	32.03	31.30	30.33	22.21	21.00	20.19
5200.1	30.0	5230.1	8.18	7.65	7.35	21.42	25.73	28.83	830.0	31.41	30.79	29.89	21.73	20.67	19.80
5400.1	30.0	5430.1	8.10	7.58	7.31	21.65	25.92	28.61	871.7	30.68	30.30	29.57	21.75	20.66	19.80
5600.1	30.0	5630.1	7.98	7.45	7.15	21.93	26.51	29.38	913.3	30.11	29.80	28.98	21.99	20.50	19.24
5800.1	30.0	5830.1	8.08	7.59	7.34	22.24	27.28	29.89	955.0	29.18	29.17	28.56	21.48	20.11	18.92
5960.1	30.0	5990.1	8.24	7.75	7.49	22.22	27.26	29.91	996.7	28.78	28.79	28.19	22.13	20.27	18.76
6120.1	30.0	6150.1	8.26	7.83	7.59	21.93	26.91	29.42	1038.3	27.81	27.97	27.47	21.79	19.86	18.31
6280.1	30.0	6310.1	8.56	8.08	7.83	22.31	26.64	29.44	1080.0	27.18	27.50	27.20	21.96	19.86	18.18
6440.1	30.0	6470.1	8.08	7.68	7.46	21.69	26.28	28.95	1121.7	26.66	26.99	26.68	21.95	19.53	17.64
6600.1	30.0	6630.1	8.47	7.98	7.72	21.76	26.42	29.46	1205.0	25.43	25.85	25.94	21.84	19.07	17.11
6760.1	30.0	6790.1	8.12	7.71	7.49	21.52	25.91	28.85	1288.3	24.21	24.83	25.22	21.14	18.50	16.68
6920.1	30.0	6950.1	8.12	7.75	7.55	21.27	25.75	29.11	1436.7	21.90	23.03	24.04	19.88	17.93	16.30
7080.1	30.0	7110.1	8.70	8.28	8.05	21.24	25.74	28.94	1650.0	16.72	18.24	19.80	16.25	14.64	13.17
7240.1	30.0	7270.1	9.19	8.80	8.57	21.86	25.65	28.62	1796.5	17.53	19.26	21.30	18.63	16.94	15.50

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Typical Performance Data

IF INPUT (MHz)	IF VSWR (:1)			LO INPUT (MHz)	LO VSWR (:1)			RF OUTPUT (MHz)	RF VSWR (:1)		
	@LO (dBm)				@LO (dBm)				@LO (dBm)		
	+14	+17	+20		+14	+17	+20		+14	+17	+20
2600.1	3.63	3.46	3.36	11.0	1.13	1.47	2.27	2630.1	1.36	1.34	1.40
2800.1	2.49	2.39	2.34	51.0	1.17	1.50	2.27	2830.1	1.55	1.41	1.37
3000.1	2.10	2.00	1.96	91.0	1.20	1.50	2.21	3030.1	1.81	1.59	1.48
3200.1	1.76	1.67	1.64	153.6	1.29	1.53	2.24	3230.1	1.69	1.52	1.41
3400.1	1.43	1.33	1.29	238.8	1.42	1.55	2.25	3430.1	1.83	1.60	1.46
3600.1	1.41	1.27	1.20	324.0	1.55	1.59	2.21	3630.1	1.92	1.69	1.54
3800.1	1.39	1.26	1.21	409.2	1.66	1.60	2.17	3830.1	2.16	1.91	1.76
4000.1	1.32	1.32	1.37	494.4	1.73	1.58	2.11	4030.1	2.56	2.30	2.14
4200.1	1.38	1.54	1.70	579.6	1.90	1.56	2.05	4230.1	2.77	2.56	2.42
4400.1	1.43	1.68	1.89	664.8	2.01	1.52	1.97	4430.1	2.99	2.77	2.63
4600.1	1.67	1.86	2.03	750.0	2.12	1.49	1.85	4630.1	3.04	2.80	2.66
4800.1	1.83	1.96	2.08	776.7	2.27	1.53	1.88	4830.1	3.91	3.53	3.29
5000.1	2.24	2.34	2.46	803.3	2.29	1.54	1.81	5030.1	4.25	3.83	3.57
5200.1	2.91	2.91	2.94	830.0	2.30	1.56	1.76	5230.1	3.69	3.32	3.10
5400.1	3.87	3.69	3.59	871.7	2.69	1.67	1.82	5430.1	2.30	2.09	1.97
5600.1	3.64	3.36	3.19	913.3	2.69	1.69	1.72	5630.1	1.51	1.43	1.39
5800.1	2.49	2.34	2.23	955.0	3.16	1.79	1.75	5830.1	1.80	1.78	1.78
5960.1	2.25	2.08	1.97	996.7	3.13	1.79	1.67	5990.1	2.07	2.01	1.99
6120.1	2.13	1.98	1.89	1038.3	3.72	1.93	1.69	6150.1	1.92	1.82	1.76
6280.1	2.48	2.31	2.20	1080.0	3.78	1.93	1.66	6310.1	1.57	1.46	1.40
6440.1	3.19	2.89	2.70	1121.7	4.44	2.10	1.64	6470.1	1.28	1.23	1.24
6600.1	3.10	2.80	2.60	1205.0	4.94	2.23	1.61	6630.1	1.45	1.49	1.56
6760.1	2.05	1.87	1.76	1288.3	5.27	2.27	1.53	6790.1	2.07	2.04	2.05
6920.1	1.15	1.07	1.07	1436.7	6.02	2.37	1.41	6950.1	2.99	2.82	2.72
7080.1	2.07	2.08	2.10	1650.0	5.76	2.33	1.33	7110.1	3.53	3.30	3.15
7240.10	3.34	3.23	3.16	1796.5	5.15	2.29	1.36	7270.1	3.64	3.39	3.23



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IF/RF MICROWAVE COMPONENTS



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