

widest variety of connector types

T-74-09-01

Frequency Mixers

2 to 4.2 GHz

LEVEL 7 (+7dBm LO, up to +1dBm RF)

Models

ZFM-4212

PAM-42



computer-automated performance data

typical production unit / for data of other models consult factory

mixer conversion loss and isolation

RF MHz	LO MHz	Conversion Loss (dB)			freq. (MHz)	Isolation L-R (dB)			LO	Isolation L-I (dB)		
		+4dBm	+7dBm	+10dBm		+4dBm	+7dBm	+10dBm		+4dBm	+7dBm	+10dBm
2000.000	2200.000	5.30	5.02	4.83	2000.000	27.78	28.29	28.99	14.41	13.79	13.42	
2112.821	2312.821	5.09	4.86	4.73	2125.714	26.91	27.60	28.28	13.45	13.30	12.96	
2225.641	2025.641	5.30	5.05	4.90	2251.429	26.66	27.57	28.54	12.82	13.16	13.41	
2338.462	2138.462	5.17	4.98	4.90	2377.143	27.35	28.69	29.81	11.99	12.95	13.52	
2394.872	2194.872	5.12	4.95	4.89	2440.000	27.61	29.08	30.37	12.22	13.41	14.24	
2507.692	2307.692	5.72	5.42	5.25	2502.857	28.36	29.78	31.16	12.94	14.10	15.08	
2620.513	2420.513	5.79	5.52	5.35	2628.571	28.76	30.16	31.30	13.20	14.69	15.84	
2733.333	2533.333	5.58	5.31	5.16	2754.286	28.81	29.70	30.46	12.65	14.39	15.87	
2846.154	2646.154	6.27	5.91	5.68	2880.000	29.99	30.28	30.56	13.60	15.48	17.28	
2958.974	2758.974	6.12	5.80	5.60	3000.000	37.18	34.83	34.81	14.73	16.78	18.81	
3128.205	2928.205	5.87	5.51	5.41	3131.429	29.76	29.94	29.67	16.33	18.49	20.67	
3241.026	3041.026	5.86	5.43	5.19	3257.143	32.28	31.24	30.34	17.76	19.95	22.23	
3353.846	3153.846	6.09	5.68	5.52	3382.857	30.35	30.13	29.74	18.56	20.75	22.73	
3523.077	3323.077	6.29	5.59	5.23	3508.571	30.81	30.22	29.69	20.40	22.21	23.53	
3635.897	3435.897	6.19	5.59	5.36	3634.286	32.38	30.70	29.35	21.89	22.93	23.33	
3748.718	3548.718	6.25	5.62	5.30	3760.000	32.60	30.34	29.04	23.90	23.05	22.09	
3861.539	3661.539	6.11	5.48	5.20	3885.714	32.58	30.00	28.46	26.07	22.95	20.77	
3974.359	3774.359	6.20	5.50	5.16	4000.000	31.57	28.87	27.17	26.30	21.72	19.27	
4087.180	3887.180	6.21	5.44	5.10	4074.286	32.77	30.09	28.26	27.33	22.40	19.90	
4200.000	4000.000	6.12	5.22	5.12	4200.000	33.54	30.27	28.14	26.28	21.65	19.05	

mixer VSWR

φ detection

freq. MHz	VSWR, RF port			VSWR, LO port			freq. (MHz)	VSWR, IF port			freq. (MHz)	max. DC output mV	DC offset mV
	+4dBm	+7dBm	+10dBm	+4dBm	+7dBm	+10dBm		+4dBm	+7dBm	+10dBm			
2000.000	2.74	2.56	2.43	3.05	3.97	5.22	5.000	1.23	1.09	1.02	2000.000	-208.31	-8.96
2111.392	2.68	2.53	2.42	3.26	4.54	6.19	35.833	1.23	1.08	1.02	2125.714	-219.86	-8.55
2222.785	2.64	2.51	2.40	3.07	4.18	5.66	66.667	1.23	1.09	1.02	2251.429	-226.54	-5.72
2334.177	2.61	2.49	2.39	3.05	4.08	5.58	100.000	1.24	1.09	1.02	2377.143	-224.21	-4.00
2500.000	2.50	2.37	2.28	3.98	5.33	7.17	159.167	1.24	1.10	1.01	2500.000	-227.23	-9.06
2612.658	2.20	2.00	1.86	3.96	5.19	7.11	200.000	1.25	1.10	1.01	2565.714	-223.86	-11.17
2724.051	3.10	2.89	2.70	4.05	5.06	6.73	282.500	1.26	1.12	1.02	2691.429	-204.40	-8.98
2835.443	3.37	3.17	2.99	4.46	5.52	7.25	344.167	1.27	1.14	1.05	2817.143	-210.21	-6.39
2946.835	3.55	3.34	3.17	4.91	5.87	7.70	405.833	1.28	1.15	1.05	2942.857	-205.60	-3.82
3000.000	3.49	3.29	3.15	4.57	5.51	7.38	467.500	1.29	1.17	1.07	3000.000	-215.32	-14.60
3141.772	3.38	3.15	2.99	5.79	6.39	7.80	500.000	1.30	1.18	1.09	3068.571	-220.75	-6.11
3253.165	3.08	2.80	2.58	6.01	6.58	7.90	590.833	1.31	1.20	1.13	3257.143	-206.85	-2.46
3364.557	4.13	3.84	3.60	8.43	9.69	12.44	714.167	1.35	1.25	1.20	3382.857	-211.95	-1.86
3500.000	3.97	3.72	3.52	6.42	6.28	7.00	806.667	1.35	1.28	1.27	3500.000	-213.35	-1.40
3643.038	3.73	3.54	3.42	7.63	7.05	7.73	868.333	1.34	1.29	1.30	3571.429	-188.13	-.61
3754.430	3.66	3.50	3.40	8.51	7.70	8.27	899.167	1.34	1.31	1.32	3697.143	-175.24	-1.09
3865.823	3.68	3.52	3.40	10.96	9.90	10.82	1000.000	1.32	1.34	1.39	3822.857	-179.70	-1.53
4000.000	3.90	3.67	3.48	8.20	6.07	5.83	1115.000	1.31	1.40	1.51	4000.000	-184.87	-1.92
4088.608	4.10	3.82	3.61	7.14	5.63	5.28	1207.500	1.32	1.48	1.64	4074.286	-187.94	+1.15
4200.000	4.42	4.09	3.79	16.89	10.02	8.72	1300.000	1.36	1.58	1.79	4200.000	-167.29	-2.22