



1 : Microlithic & MMIC Chip / Module

Model	GHz						Conversion loss(dB)	Isolation L-R(dB)	Isolation L-I(dB)
	RF Low	RF High	LO Low	LO High	IF Low	IF High			
MT3H-0113H	1.5	13	1.5	13	0.8	8.5	8.5	37	42
MT3H-0113L	1.5	13	1.5	13	0.8	8.5	8	43	42
ML1-0113	1.5	13	1.5	13	DC	1.5	7	40	20
ML-0220	2	20	2	20	DC	4	7	40	20
MM1-0312H	3	12	3	12	DC	4.5	8	52	27
MM1-0312S	3	12	3	12	DC	4.5	8	52	27
MM1-0320H	3.5	20	3.5	20	DC	4	8	52	27
MM1-0320L	3	20	3	20	DC	4	8.5	54	27
MM1-0424S	4.5	24	4.5	24	DC	4	8	49	29
MM2-0530H	5	30	5	30	2	20	8	35	44
MM2-0530L	5	30	5	30	2	20	8	44	44
MM1-0626H	6	26.5	6	26.5	DC	9	8	53	30
MM1-0626S	6	26.5	6	26.5	DC	9	8	53	30
ML1-0732	7	32	7	32	DC	8	8	42	25
ML1-0936	9	36	9	36	DC	12	7	33	28
ML1-1040	10	40	10	40	DC	16	8	43	20
ML1-1050	10	50	10	50	DC	16	8	43	20
ML1-1140H	11	40	11	40	DC	12	7	47	25
ML1-1240S	12	40	12	40	DC	12	7	40	25
ML1-1644	16	44	16	44	DC	21	7	40	25
ML1-1850	18	50	18	50	DC	24	8	37	23
MM1-1850H	18	50	18	50	DC	20	8	43	34
MM1-1850S	18	50	18	50	DC	20	8.5	43	34
MM1-1857H	18	57	18	57	DC	21	7.5	45	30
MM1-1857L	18	57	18	57	DC	21	8	35	32
MM1-2567LS	25	67	25	67	DC	30	9	33	23



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TEL : [03-5450-5311](tel:03-5450-5311) FAX : 03-5450-5312

Mail : rf@amtechs.co.jp



2 : Microlithic and MMIC Surface Mount

Model	GHz						Conversion loss(dB)	Isolation L-R(dB)	Isolation L-I(dB)
	RF Low	RF High	LO Low	LO High	IF Low	IF High			
ML1-0110SM	1.5	10	1.5	10	DC	2	7	38	17
MT3-0113HCQG	1.5	13	1.5	13	0.01	7	7.5	40	40
MT3-0113LCQG	1.5	13	1.5	13	0.01	7	7.5	40	20
MT3H-0113HSM	1.5	13	1.5	13	0.8	8.5	8	37	40
MT3H-0113LSM	1.5	13	1.5	13	0.8	1	8	42	41
ML-0218SM	2	18	2	18	DC	4	7	40	20
MM1-0312HSM	3	12	3	12	DC	4.5	7	49	29
MM1-0312SSM	3	12	3	12	DC	4.5	7	49	29
MM1-0320HSM	3.5	20	3.5	20	DC	4	8	49	29
MM1-0424SSM	4.5	24	4.5	24	DC	4	8	48	30
MM1-0626HSM	6	26.5	6	26.5	DC	9	7	45	30
MM1-0626SSM	6	26.5	6	26.5	DC	9	8	45	30
ML1-0832SM	8	32	8	32	DC	10	7	36	29
MM1-1130HSM	11	30	11	30	DC	12	7	40	28



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Mail : rf@amtechs.co.jp



3 : T3 series Mixers – High Intercept and Broadband(Triple Balanced)

Model	GHz						Conversion loss(dB)	Isolation L-R(dB)	Isolation L-I(dB)
	RF Low	RF High	LO Low	LO High	IF Low	IF High			
T3-03	.001	3.4	.001	3.4	.001	3.4	7	30	30
T3-04	.001	4	.001	4	.001	4	7	30	28
T3-05	.001	5	.001	5	.001	4	7	30	28
T3-06	.001	6	.001	6	.001	4	7	30	27
T3-07	.001	7	.001	7	0.01	4	7.5	24	27
T3-08	.01	8	.01	8	0.01	4	7.5	24	27
T3-10	.01	10	.01	10	0.01	4	7.5	24	27
T3-12	.01	12	.01	12	.001	4	7.5	24	27
T3-18	.01	18	.01	18	.001	10	7.5	25	40
T3H-18	.01	18	.01	18	.01	18	8.5	30	33
T3-20	.01	20	.01	20	.001	10	7.5	24	37
T3H-20	.01	20	.01	20	.01	18	8.5	30	33
T3-0218	2	18	2	18	.001	6	7	25	28
T3-0316	3	16	3	16	.001	4	7.5	25	25
T3-0838	8	38	8	38	.01	10	8	28	40
T3-1040	10	40	10	40	1	18	8	28	30
MT3H-0113H	1.5	13	1.5	13	0.8	8.5	8.5	37	42
MT3H-0113L	1.5	13	1.5	13	0.8	8.5	8	43	42
MT3-0113HCQG	1.5	13	1.5	13	.01	7	7.5	40	40
MT3-0113LCQG	1.5	13	1.5	13	.01	7	7.5	40	40
MT3H-0113HSM	1.5	13	1.5	13	0.8	8.5	8	37	40
MT3H-0113LSM	1.5	13	1.5	13	0.8	1	8	37	40

4 : T3A series Mixers High Intercept(Triple-Balanced) with integrated amplifier

Model	MHz						Conversion loss(dB)	dB	mA
	RF Low	RF High	LO Low	LO High	IF Low	IF High			
T3A-07SMG	10	7000	10	7000	1	4000	6.5	+5/-0.2	160
T3A-07PA	10	7000	10	7000	1	4000	6.5	+7	250



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Mail : rf@amtechs.co.jp



5 : M1 series Mixers – General Purpose(Double Balanced)

Model	GHz						Conversion loss(dB)	Isolation L-R(dB)	Isolation L-I(dB)
	RF Low	RF High	LO Low	LO High	IF Low	IF High			
M1-0008	.01	8	.01	8	DC	2	7.5	40	25
M1-0012	.01	12	.01	12	DC	2	7.5	35	25
M1-0204	2	4	2	4	DC	2	5	38	20
M1-0208	2	8	2	8	DC	2	6	38	20
M1-0212	2	12	2	12	DC	2	6	35	20
M1-0218	2	18	2	18	DC	2	7	35	25
M1-0220	2	2	2	20	DC	2	7	35	25
M1-0310	3	10	3	10	DC	3	6	40	40
M1-0408	4	8	4	8	DC	4	5.5	35	25
M1-0412	4	12	4	12	DC	4	5	40	30
M1-0420	4	20	4	20	DC	4	6	35	30
M1-0616	6	16	6	16	DC	4	5.5	35	30
M1B-0618	6	18	6	18	DC	4	5.5	33	30
M1-0620	6	20	6	20	DC	6	5.5	40	20
M1R-0726	7	26.5	7	26.5	DC	8	6	38	25
M1-0818	8	18	8	18	DC	4	6	35	30
M1-1020	10	20	10	20	DC	4	6	35	30

6 : Image Rejection and Single Sideband Mixers

Model	GHz						Conversion loss	dB	dB	dB
	RF Low	RF High	LO Low	LO High	IF Low	IF High				
IR-4509	4.5	9	4.5	9	.05	.09	5.5	23	30/25	
IRW-0618	6	18	6	18	.004	.21	7.5	23	35/25	
SSB-0618	6	18	6	18	.004	.21	7.5	23	35/25	



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7 : M2 series Mixers – Broadband(Triple-Balanced)

Model	GHz						Conversion loss(dB)	Isolation L-R(dB)	Isolation L-I(dB)
	RF Low	RF High	LO Low	LO High	IF Low	IF High			
M2-0020	1	20	1	20	.001	6	7.5	24	25
M2-0026	.01	26	.01	26	.001	6	8	20	20
M2-0208	2	8	2	8	.001	6	7	20	30
M2-0218	2	18	2	18	.001	6	7.5	25	27
M2B-0218	2	18	2	18	1	12	7.5	30	23
M2-0219	2	19	2	19	.001	6	7	25	25
M2-0220	2	20	2	20	.001	6	7.5	25	27
M2H-0220	2	20	2	20	1	10	7	27	27
M2-0226	2	26.5	2	26.5	.001	6	7.5	25	28
M2B-0226LA	2	26	2	26	1	15	8	15	15
M2H-0226	2	26.5	2	26.5	1	10	8.5	23	25
M2-0240	2	40	2	40	.001	6	9	30	30
M2-0243LPV	2	43	2	43	.4	43	10	30	25
M2-0250LNVT	2	50	2	50	.4	50	10	25	25
M2-0440	4	40	4	40	.5	20	10	25	25

8 : M4 series Mixers – Ultra Wideband(Double-Balanced)

Model	GHz						Conversion loss(dB)	Isolation L-R(dB)	Isolation L-I(dB)
	RF Low	RF High	LO Low	LO High	IF Low	IF High			
M4-0040	.5	40	.5	40	DC	.4	8	28	30
M4-0050	.5	50	.5	50	DC	.3	9	27	27
M4-0126	1	26.5	1	26.5	DC	.7	8.5	30	30
M4-0140	1	40	1	40	DC	.7	8.5	30	27
M4-0150	1	50	1	50	DC	.4	9	27	27
M4-0165	1	65	1	65	DC	.4	9.5	27	27

9 : M8 series Mixers – High Performance, High Isolation(Double Balanced)

Model	GHz						Conversion loss(dB)	Isolation L-R(dB)	Isolation L-I(dB)
	RF Low	RF High	LO Low	LO High	IF Low	IF High			
M8-0326	3	26.5	3	26.5	DC	2	5.5	35	25
M8-0412	4	12	4	12	DC	2	5	40	25
M8-0420	4	20	4	20	DC	2	5.5	40	30



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Mail : rf@amtechs.co.jp



10 : M9 series Mixers – Millimeter wave(Double Balanced)

Model	GHz						Conversion loss(dB)	Isolation L-R(dB)	Isolation L-I(dB)
	RF Low	RF High	LO Low	LO High	IF Low	IF High			
M9-0440	4	44	4	44	DC	3	7.5	25	25
M9-0465	4	65	4	65	DC	3	9	25	25
M9-0540	5	40	5	40	DC	3	7.5	25	25
M9-0750	7	50	7	50	DC	10	7.5	25	25
M9-0942	9	42	9	42	1	22	9	25	25
M9-0950	9	50	9	50	1	22	10	25	25
M9D-2065	20	65	20	65	1	22	12	30	30

11 : IQ Mixers

Model	GHz						dB			Degree	dB
	RF Low	RF High	LO Low	LO High	IF Low	IF High	Conversion loss	Image rejection	Amplitude Deviation	Phase Deviation	Isolation L-R/L-I
MLIQ-0218	2	18	2	18	DC	3.5	8.5	29	0.21	5	45/25
MLIQ-0218SM	2	18	2	18	DC	3.5	8.5	29	0.21	5	45/25
MLIQ-0416SM	4	16	4	16	DC	3.5	8.5	32	0.13	3.5	45/25
MLIQ-0416SM	4	16	4	16	DC	3.5	8.5	30	0.18	5	39/23
MLIQ-1845	18	45	18	45	DC	20	8	31	0.11	5	37/29
IQ-1545	1.5	4.5	1.5	4.5	DC	.5	5.5	25	0.3	3	43/30
IQ-0255	2	5.5	2	5.5	DC	.5	5.5	23	0.3	3	42/30
IQ-0307	3	7	3	7	DC	.5	5.8	23	0.3	3	30/20
IQ-4509	4.5	9	4.5	9	DC	.5	5.5	23	0.3	4	30/20
IQ-0618	6	18	6	18	DC	.5	7.5	23	0.4	3	35/20
IQB-0618	6	18	6	18	DC	5	11	23	0.5	5	20/20
MMIQ-0205SSM	1.75	5	1.75	5	DC	2	8.5	29	0.15	5	56/47
MMIQ-0205HSM	1.75	5	1.75	5	DC	2	8	32	0.16	3	61/46



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