

# MMIC Amplifier

# MAR-4SM+

## Typical Performance Data

FREQUENCY (MHz)	GAIN (dB) 50 mA	ISOLATION (dB) 50 mA	RETURN LOSS IN (dB) 50 mA	RETURN LOSS OUT (dB) 50 mA
1	8.45	16.09	38.70	28.85
25	8.45	16.04	38.91	27.67
50	8.41	16.06	39.15	27.93
100	8.39	16.06	36.95	27.14
200	8.34	16.06	32.68	27.20
300	8.31	16.05	29.07	26.14
400	8.25	16.00	27.16	23.91
500	8.19	15.95	25.18	23.51
600	8.12	15.89	23.11	22.95
700	8.04	15.83	22.17	20.48
800	7.94	15.75	20.79	19.93
900	7.85	15.69	19.24	20.30
1000	7.73	15.60	18.77	17.80
1100	7.59	15.53	17.75	17.20
1200	7.50	15.43	16.60	18.04
1300	7.36	15.34	16.41	15.60
1400	7.21	15.29	15.53	15.17
1500	7.09	15.19	14.67	16.06
1600	6.93	15.12	14.64	13.89
1700	6.75	15.08	13.87	13.52
1800	6.65	14.97	13.24	14.45
1900	6.48	14.93	13.28	12.62
2000	6.27	14.91	12.60	12.20
2100	6.18	14.77	12.13	13.32
2200	6.00	14.76	12.25	11.68
2300	5.78	14.77	11.56	11.07
2400	5.71	14.63	11.13	12.58
2500	5.50	14.63	11.34	10.82
2600	5.28	14.65	10.75	10.23
2700	5.24	14.47	10.39	12.19
2800	5.01	14.52	10.62	10.14
2900	4.74	14.63	10.02	9.58
3000	4.74	14.43	9.86	12.08
3100	4.51	14.50	10.12	9.52
3200	4.25	14.55	9.53	9.11
3500	3.70	14.62	9.13	8.78
4000	2.93	14.64	8.98	7.81

REV. X2  
MAR-4SM+  
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Page 1 of 1



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

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