

broadband plug-in and surface mount

Monolithic Amplifiers

50 ohms

SCIENTIFIC/ MINI-CIRCUITS 49E D ■ 8068811 0001621 268 ■ SCC

T-74-13-01

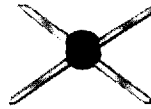
up to 56 mW (+ 17.5 dBm) output
dc to 2 GHz

case style selection

outline drawings Table of Contents



RAM



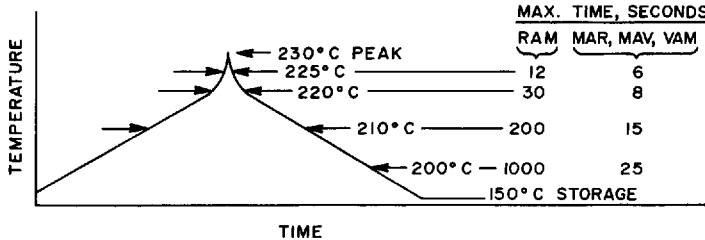
MAR



MAR-SM

MODEL NO.	FREQ. MHz		GAIN, dB Typical (at MHz)				MAXIMUM POWER, dBm		DYNAMIC RANGE		VSWR		MAXIMUM RATING (25°C)		DC POWER at Pin 3		PRICE \$ ▼	DISTRIBUTOR		
	f _L	f _U	100	500	1000	2000	(Note 4) MIN	Output (dB Comp.)	Input (no damage)	NF dB Typ.	P3 dBm Typ.	In	Out	(mA)	P(mW)	Current (mA)		Volt. Typ.	Qty. (25)	FACTORY
□ MAR case VV105	MAR-1	DC-1000	18.5	17.5	15.5	—	13.0	+ 1.5	+20	5.5	+14.0	1.3:1	1.3:1	40	200	17	5.0	0.99	●	●
	MAR-2	DC-2000	12.5	12.3	12.0	11.0	8.5	+ 4.5	+20	6.5	+17.0	1.3:1	1.4:1	60	325	25	5.0	1.35	●	●
	MAR-3	DC-2000	12.5	12.2	12.0	10.5	8.0	+10.0	+20	6.0	+23.0	1.5:1	1.7:1	70	400	35	5.0	1.45	●	●
	MAR-4	DC-1000	8.3	8.2	8.0	—	7.0	+12.5	+20	6.5	+25.5	1.6:1	2.0:1	85	500	50	5.25	1.55	●	●
	MAR-6	DC-2000	20.0	18.5	16.0	11.0	9.0	+ 2.0	+20	3.0	+14.5	1.5:1	1.4:1	50	200	16	3.5	1.29	●	●
	MAR-7	DC-2000	13.5	13.1	12.5	11.0	8.5	+ 5.5	+20	5.0	+19.0	1.4:1	1.5:1	60	275	22	4.0	1.75	●	●
	MAR-8	DC-1000	32.5	28.0	22.5	—	19.0	+12.5	+20	3.3	+27.0	*	*	65	500	36	7.8	1.70	●	●
○ □ MAR-SM case WW107	MAR-1SM	DC-1000	18.5	17.5	15.5	—	13.0	+ 1.5	+20	5.5	+14.0	1.3:1	1.2:1	40	200	17	5.0	1.04	●	●
	MAR-2SM	DC-2000	12.5	12.3	12.0	11.0	8.5	+ 4.5	+20	6.5	+17.0	1.5:1	1.4:1	60	325	25	5.0	1.40	●	●
	MAR-3SM	DC-2000	12.5	12.2	12.0	10.5	8.0	+10.0	+20	6.0	+23.0	1.5:1	1.7:1	70	400	35	5.0	1.50	●	●
	MAR-4SM	DC-1000	8.3	8.2	8.0	—	7.0	+12.5	+20	7.0	+25.5	1.5:1	1.9:1	85	500	50	5.25	1.60	●	●
	MAR-6SM	DC-2000	20.0	18.5	16.0	11.0	9.0	+ 2.0	+20	3.0	+14.5	1.7:1	1.7:1	50	200	16	3.5	1.34	●	●
	MAR-7SM	DC-2000	13.5	13.1	12.5	11.0	8.5	+ 5.5	+20	5.0	+19.0	1.7:1	1.7:1	60	275	22	4.0	1.80	●	●
	MAR-8SM	DC-1000	32.5	28.0	22.5	—	19.0	+12.5	+20	3.3	+27.0	*	*	65	500	36	7.8	1.75	●	●
○ RAM case AF190	RAM-1	DC-1000	19.0	17.5	15.5	—	13.0	+ 1.5	+20	5.5	+14.0	1.3:1	1.3:1	40	200	17	5.0	4.95	●	●
	RAM-2	DC-2000	12.5	12.0	11.8	11.0	8.5	+ 4.5	+20	6.5	+17.0	1.2:1	1.4:1	60	325	25	5.0	4.95	●	●
	RAM-3	DC-2000	12.5	12.2	12.0	10.5	8.0	+10.0	+20	6.0	+23.0	1.6:1	1.7:1	80	425	35	5.0	4.95	●	●
	RAM-4	DC-1000	8.5	8.2	8.0	—	7.0	+12.5	+20	6.5	+25.5	1.4:1	1.9:1	100	540	50	5.25	4.95	●	●
	RAM-6	DC-2000	20.0	19.0	16.0	11.0	9.0	+ 2.0	+20	2.8	+14.5	1.4:1	1.3:1	50	200	16	3.5	4.95	●	●
	RAM-7	DC-2000	13.5	13.1	12.5	11.0	8.5	+ 5.5	+20	4.5	+19.0	2.0:1	1.8:1	60	275	22	4.0	4.95	●	●
	RAM-8	DC-1000	32.5	28.0	23.0	—	19.0	+12.5	+20	3.0	+27.0	*	*	65	420	36	7.8	4.95	●	●

REFLOW - SOLDERING PROFILE



Typical Biasing Configuration

