

broadband plug-in and surface mount

# Monolithic Amplifiers

50 ohms

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

T-74-13-01

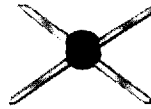
up to 56 mW (+ 17.5 dBm) output  
dc to 2 GHz

case style selection

outline drawings Table of Contents



RAM



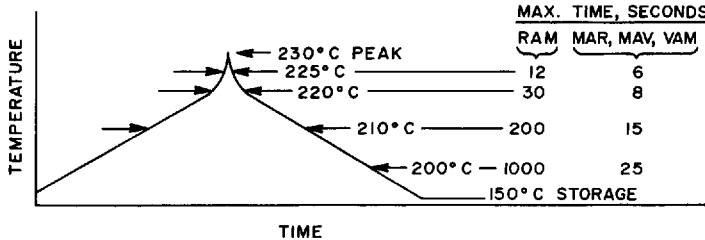
MAR



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 \$ ▼ Qty. (25)	DISTRIBUTOR		
	f <sub>L</sub>	f <sub>U</sub>	100	500	1000	2000	Output (dB Comp.)	Input (no damage)	NF dB Typ.	IP3 dBm Typ.	In	Out	Current (mA)	Volt. Typ.	Factory	Local				
																		(Note 4) MIN	Current (mA)	Volt. Typ.
□ 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

