

Mini-Circuits

T-74-13-01



MAV



VAM



VAM Actual size

MODEL NO.	•FREQ. MHz	GAIN, dB Typical (at MHz)					MAXIMUM POWER, dBm		DYNAMIC RANGE		VSWR		MAXIMUM RATING		DC POWER at Pin 3		PRICE \$	DISTRIBUTOR		
		f _L	f _U	100	500	1000	2000	(note 4) MIN.	Output (1 dB Comp.)	Input no (damage)	NF dB Typ.	IP3 dBm Typ.	In	Out	(25°C) I (mA) P (mW)	Current (mA)	Volt. Typ.	Qty. (25)	F A C T O R Y	L O C A L
□MAV case 888-123	MAV-1	DC-1000	18.5	17.0	15.0	—	12.5	+ 1.5	+20	5.5	+14.0	1.4:1	1.3:1	40	200	17	5.0	1.10	●	●
	MAV-2	DC-1500	12.5	12.0	11.0	10.0	7.5	+ 4.5	+20	6.5	+17.0	1.3:1	1.4:1	60	325	25	5.0	1.40	●	●
	MAV-3	DC-1500	12.5	12.0	11.0	10.0	7.5	+10.0	+20	6.0	+23.0	1.3:1	1.6:1	70	400	35	5.0	1.50	●	●
	MAV-4	DC-1000	8.3	8.0	7.5	—	7.0	+11.5	+20	7.0	+24.5	1.4:1	1.8:1	85	500	50	5.25	1.60	●	●
	MAV-11	DC-1000	12.7	12.0	10.5	—	9.0	+17.5	+20	3.6	+30.0	1.5:1	1.7:1	80	550	60	5.5	2.10	●	●
□VAM case MVM-168	VAM-3	DC-2000	11.5	11.5	11.0	9.5	7.5	+ 9.0	+20	6.0	+22.0	1.5:1	1.7:1	60	240	35	4.7	1.45	●	●
	VAM-6	DC-2000	19.5	18.0	15.0	10.0	8.0	+ 2.0	+20	3.0	+14.0	1.6:1	1.5:1	40	125	16	3.3	1.29	●	●
	VAM-7	DC-2000	13.0	12.6	12.0	9.8	7.8	+ 5.5	+20	5.0	+18.0	1.5:1	1.5:1	50	175	22	3.8	1.75	●	●

NOTES:

□ NON-HERMETIC

○ Available on tape & reel. See Table of Contents, Section 0 for more information.

▼ Prices of MAR-1 and MAR-1SM are for 100 quantity, price of RAM models is for 1-9 quantity.

* Dash-8 models input and output impedances are not 50 ohms, see S-parameter data. Conditionally stable, source and load VSWR < 3:1 required.

* Low-frequency cutoff determined by external coupling capacitors.

1. Specification in 50 ohms system.

2. Absolute Maximum Ratings: see Section 3 environmental table.

3. Prices and specifications subject to change without notice.

4. Minimum gain at highest frequency and over full temperature range.

5. Model number designated by color dot or alphanumeric code marking.

6. Frequency at which output power, NF and IP3 are specified: 500 MHz for MAR-1, MAR-6, MAR-1SM, MAR-6SM, RAM-1, RAM-6, MAV-1, MAV-11, VAM-6.

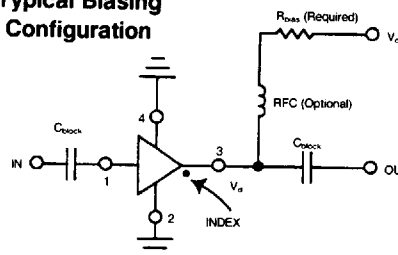
1000 MHz for the other models.

7. MAV-1SM thru MAV-11SM available tape and reel. See RRR 137 outline drawing.

features

- cascadable
- excellent repeatability
- wide bandwidth DC-2000 MHz
- unconditionally stable, except MAR-8, MAR-8SM, RAM-8
- low cost, MAR, MAV, VAM models
- hermetically sealed, RAM models
- low noise figure, 2.8 to 3.6 dB typ. MAR-6, MAR-8, MAV-11, RAM-6, RAM-8, VAM-6
- high output power, +17 dBm typ., MAV-11

Typical Biasing Configuration



marking identification

Model	Alphanumeric Code	Color Dot
MAR-1/SM	A01	Brown
MAR-2/SM	A02	Red
MAR-3/SM	A03	Orange
MAR-4/SM	A04	Yellow
MAR-6/SM	A06	White
MAR-7/SM	A07	Violet
MAR-8/SM	A08	Blue
RAM-1	1	—
RAM-2	2	—
RAM-3	3	—
RAM-4	4	—
RAM-6	6	—
RAM-7	7	—
RAM-8	8	—
MAV-1/SM	1	—
MAV-2/SM	2	—
MAV-3/SM	3	—
MAV-4/SM	4	—
MAV-11/SM	A	—
VAM-3	A03	—
VAM-6	A06	—
VAM-7	A07	—

In Stock...Immediate Delivery

