Monolithic Amplifier

VAM-77+

 50Ω , Broadband, DC to 6 GHz



CASE STYLE: MMM168 PRICE: Contact Sales Department

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Features

- low device voltage, 3.3V typ.
- gain flatness, ±.55 dB typ. to 2 GHz
- equivalent to MSA-0711

Applications

- cellular
- PCN & instrumentation

Electrical Specifications

MODI		FREQ.* (GHz)	GAIN, dB Typical					MAXIN POWER: at 2 G	DYNAMIC RANGE at 2 GHz		VSWR (:1) Typ.		MAXIMUM RATING**		DC [‡] OPERATING POWER @ Pin 3	THERMAL RESIS- TANCE						
		f _L - f _U	0.1	ove 1	r freque 2	ncy, GH 3	lz 4	6	Min. @ 2 GHz	Flatness DC- 2 GHz	(1 dB Comp.) Typ.	Input (no dmg.)	NF dB Typ.	IP3 dBm Typ.	100-3	3-f _u GHz	Ot DC-3 GHz	ut 3-f _u GHz	I (mA)	P (mW)	Current (mA) Vol Typ	
VAM-7	77+	DC-6	13.9	13.6	12.9	12.5	11.2	9.9	11	±0.55	4.0	13	3.8	18	1.3	1.2	1.5	1.9	50	175	22 3.3	194

- * Low frequency cutoff determined by external coupling capacitors
- ** Permanent damage may occur if any of these limits are exceeded. These ratings are not intended for continuous normal operation.
- Supply voltage must be connected to pin 3 through a bias resistor in order to prevent damage. See "Biasing MMIC Amplifiers" in minicircuits.com/application.html. Reliability predictions are applicable at specified current & normal operating conditions.

Maximum Ratings

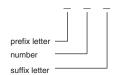
Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C
DC Voltage	2.8Vmin., 3.8V max.

Pin Configuration

RF IN	_1_
RF OUT	3
DC	3
GND EXT.	2,4
NOT LISED	_

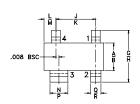
model identification

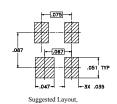
Model	marking
VAM-77+	7 <u>7</u>
	fix letter (optional) designates assembly
location.	Suffix letters (optional) are for wafer



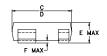
identification.

Outline Drawing





PCB Land Pattern





Outline Dimensions (inch)

.045	.055	.105	.120	.047	.005	.083	.104	J .070 1.78	.080
		N .030							
		0.76						0	



For detailed performance specs & shopping online see web site

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