

Surface Mount

# Monolithic Amplifier

50Ω, Broadband, DC to 3 GHz



VAM-93



CASE STYLE: MMM168  
PRICE: \$1.19 ea.  
QTY. (30)

## Features

- high gain, 21.2 dB typ. at 1 GHz

## Applications

- cellular
- PCN
- VHF/UHF/microwave

## Electrical Specifications

MODEL NO.	FREQ.* (GHz)	GAIN, dB Typical				MAXIMUM POWER, dBm @ 2 GHz		DYNAMIC RANGE @ 2 GHz		VSWR (:1) Typ.			MAXIMUM RATING*		DC OPERATING POWER @ Pin 3		THERMAL RESISTANCE			
		over frequency, GHz				Output (1 dB Comp.) Typ.	Input (no dmg.) Min.	NF Typ.	IP3 dB Typ.	In DC-2 GHz	Out 2-3 GHz	Out DC-3 GHz	I mA	P mW	Current (mA) Typ.	Volt Typ.	θ <sub>jc</sub> typ. °C/W			
VAM-93	DC-3	22.3	21.2	19.1	17.1	17	±1.6	12.7	10	13	3.7	27	1.5	2.3	1.1	75	330	35	3.2	159

★ Low frequency cutoff determined by external coupling capacitors.  
\* Permanent damage may occur if any of these limits are exceeded.

## Maximum Ratings

Operating Temperature	-45°C to 85°C
Storage Temperature	-65°C to 150°C
DC Voltage	3.0Vmin., 4.1V max.

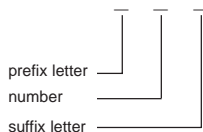
## Pin Configuration

RF IN	1
RF OUT	3
DC	3
GND EXT.	2,4
NOT USED	—

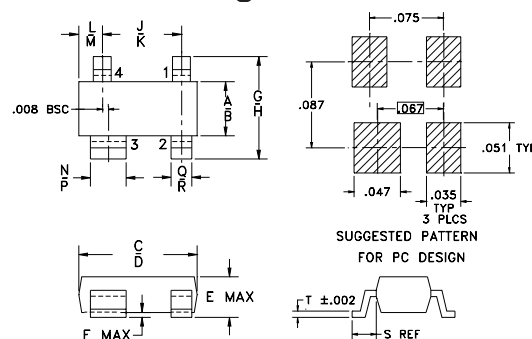
## model identification

Model	marking (See Note)	Internal code
VAM-93	93	3AB

Note: Prefix letter (optional) designates assembly location. Suffix letters (optional) are for wafer identification.



## Outline Drawing



## Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K
.045	.055	.105	.120	.047	.005	.083	.104	.070	.080
1.14	1.40	2.67	3.05	1.19	0.13	2.11	2.64	1.78	2.03
L	M	N	P	Q	R	S	T	wt.	
.018	.024	.030	.036	.015	.021	.023	.004	grams	
0.46	0.61	0.76	0.91	0.38	0.53	0.58	0.10	1.0	

REV. OR  
M75152  
EE-7974R  
VAM-93  
RS/TD/CP  
010117



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