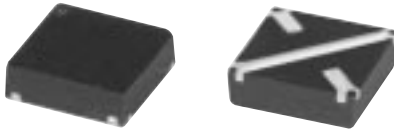


Surface Mount Monolithic Amplifier

NEW!

MAV-11A

50Ω 50 to 2000 MHz



CASE STYLE : DH820
PRICE: \$1.29 ea.
QTY. (30)

Features

- medium gain
- output power, 18.5 dBm

Applications

- cellular
- cable
- defense communications
- UHF TV

Electrical Specifications at 25°C

MODEL NO.	FREQ. (MHz) $f_L - f_U$	GAIN, dB Typical @MHz				MAXIMUM POWER, dBm Output [▲] (1 dB Comp.) Typ. Input (no dmg.) Typ.	DYNAMIC RANGE NF dB Typ. IP3 dBm Typ.	VSWR (-1) Typ.		ABSOLUTE MAXIMUM RATING**		DC POWER @ Pin 3		THERMAL RESISTANCE*** θ_{jc} , typ. °C/W		
		100	1000	2000	Min.*			In	Out	I (mA)	P (mW)	Current (mA)	Volt [†] Typ.			
MAV-11A	50-2000	12.5	11.5	10.2	9.0	+18.5	+13	4.8	+35	1.4	1.1	80	550	60	5.5	130

* Minimum gain at highest frequency. Full temperature range.

** Permanent damage may occur if any of these limits are exceeded

*** Thermal resistance θ_{jc} is from hottest junction in the device to the mounting surface of the leads.

† Device voltage is 4.8 min. and 6.0 max. Temperature coefficient -4.6 mV/°C typ.

▲ At 1000 MHz

Maximum Ratings

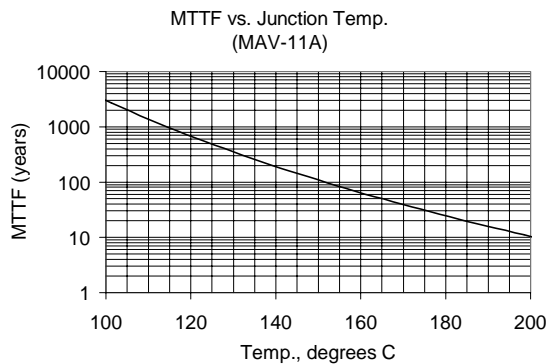
Operating Temperature	-25°C to 85°C
Storage Temperature	-65°C to 150°C
Junction Temperature	200°C

Pin Connections

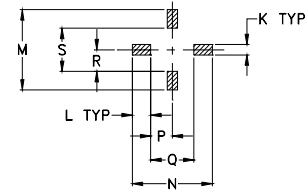
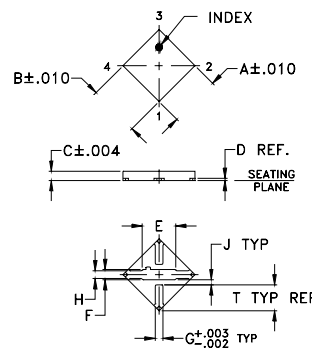
RF IN	1
RF OUT	3
DC	3
GND EXT.	2,4

marking identification

Model	Alphanumeric Code
MAV-11A	11



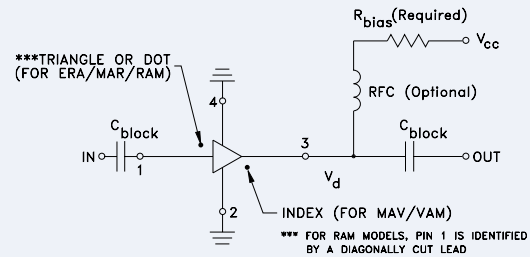
Outline Drawing



SUGGESTED LAND PATTERN FOR PC LAYOUT
PATTERN TO BE WITHIN ±.002

NOTE: TOLERANCE ±.004 UNLESS OTHERWISE SHOWN.

typical biasing configuration (MAV)



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K
.197	.197	.035	.008	.130	.039	.030	.030	.020	.040
5.00	5.00	0.89	0.20	3.30	0.99	0.76	0.76	0.51	1.02
L	M	N	P	Q	R	S	T	wt.	
.072	.310	.310	.084	.167	.084	.167	.100	grams	
1.83	7.87	7.87	2.13	4.24	2.13	4.24	2.54	.06	

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