Surface Mount

Monolithic Amplifier

NEW!

MAV-11BSM

50Ω, 50 to 1000 MHz

CASE STYLE: RRR137

Features

- equivalent to Agilent MSA-1105 and Mini-Circuit's MAV-11SM
- high IP3, 34 dBm
- excellent VSWR, 1.2:1 typ.
- medium gain
- output power, 18 dBm

Applications

- cellular
- VHF/UHF receivers/transmitters

Electrical Specifications @25°C

MODEL NO.	FREQ. (MHz)	GAIN, dB Typical @MHz						MAXIMUM POWER, dBm		DYNAMIC RANGE		VSWR (:1) Typ.		ABSOLUTE MAXIMUM RATING**		DC POWER @ Pin 3				THERMAL RESIS-TANCE*** θjc, typ. °C/W	PRICE $ Qty. (30)
	f_L - f_U	100	500	1000	2000	Flatness	Min.*	Output (1 dB Comp.) Typ.	Input (no dmg.)	NF dB Typ.	IP3 dBm Typ.	In	Out	I (mA)	P (mW)	Current (mA)	Device Volt Typ.	Min.	Max.		
MAV-11BSM	50-1000	12.7	12.1	11.3	9.5	±0.7	9.5	+18.0	+13	4.4	34	1.2	1.2	80	460	60	5.5	4.9	6.0	141	1.50

* Minimum gain at highest frequency. Full temperature range.
** Permanent damage may occur if any of these limits are exceeded
*** Thermal resistance θjc is from hottest junction in the device to the mounting surface of the leads.

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

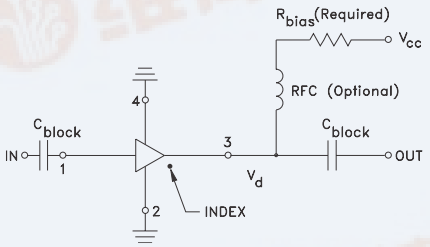
Pin Configuration

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

model identification

Model	marking
MAV-11BSM	11

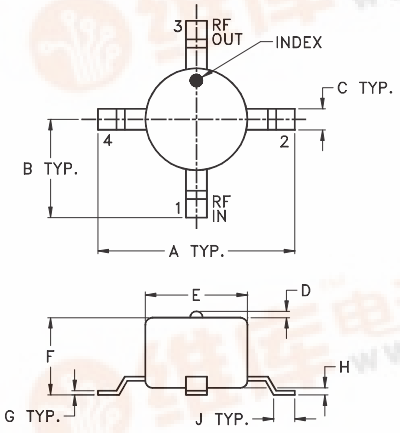
typical biasing configuration (MAV)



Resistor Values

Vcc	"1%"
7	28.0
8	45.3
9	61.9
10	78.7
11	95.3
12	113
13	127
14	143
15	158

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J	wt.
.28	.14	.030	.020	.145	.110	.006	.010	.030	grams
7.11	3.56	0.76	0.51	3.68	2.79	0.15	0.25	0.76	.015

REV. OR
M87880
ED-11227
MAV-11BSM
YB/TD/CP
030702