

Plug-In Amplifier

AMP-2000+ AMP-2000

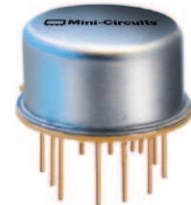
50Ω Medium Power 10 to 2000 MHz

Features

- wideband, 10 to 2000 MHz
- hermetic, TO-8 can
- low noise, 5 dB typ.

Applications

- military, hi-rel applications
- VHF/UHF
- cellular
- satellite communications



CASE STYLE: QQ96
PRICE: \$144.45 ea. Qty. (1-9)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)		MAXIMUM POWER (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f_L	f_U	Min.	Flatness Max.	Output (1 dB Compr.)	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
AMP-2000(+)	10	2000	20	±1.5	+15	+5	5.0	+25	2.0	2.0	15	100

Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

Pin Connections

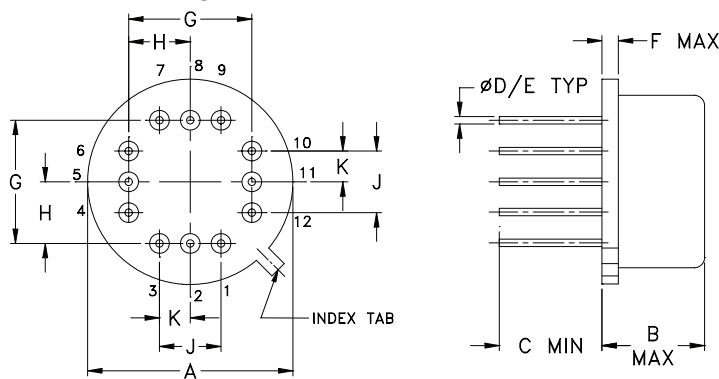
RF IN	5
RF OUT	11
DC	2
GROUND	1,3,4,6,7,8,9,10,12
CASE GROUND	1,3,4,6,7,8,9,10,12

Maximum Ratings

Operating Temperature	-54°C to 85°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V Max.

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

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	wt
.600	.250	.25	.016	.020	.04	.400	.200	.200	.100	grams
15.24	6.35	6.35	0.41	0.51	1.02	10.16	5.08	5.08	2.54	4.0

Notes

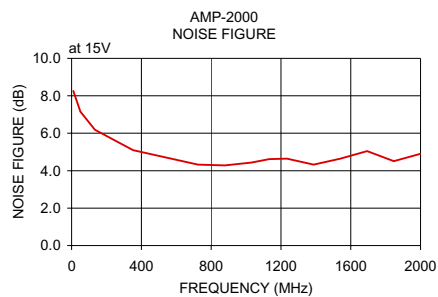
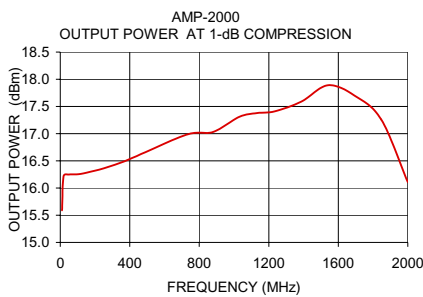
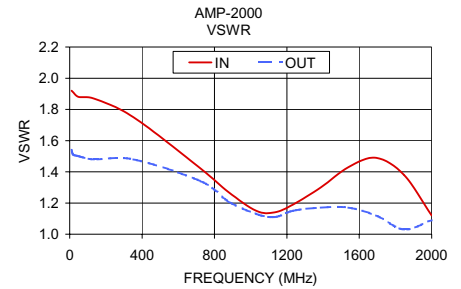
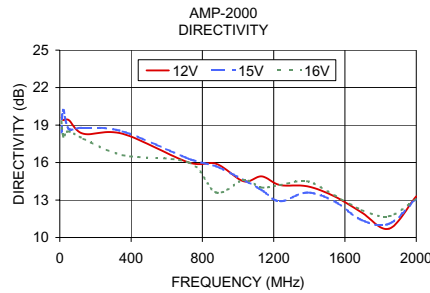
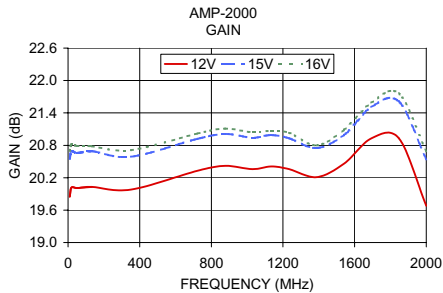
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Typical Performance Data/Curves

AMP-2000+ AMP-2000

FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT		
10.00	19.85	20.55	20.70	19.60	18.40	19.30	1.92	1.54	8.26	15.59
19.10	20.02	20.69	20.82	19.40	20.20	18.10	1.91	1.51	8.01	16.22
50.50	20.01	20.66	20.79	19.40	18.70	18.50	1.88	1.50	7.15	16.25
133.40	20.03	20.69	20.78	18.30	18.80	17.90	1.87	1.48	6.19	16.27
352.30	19.98	20.59	20.71	18.30	18.50	16.60	1.75	1.48	5.10	16.47
724.40	20.33	20.92	21.02	16.00	16.30	16.00	1.42	1.34	4.32	16.98
877.40	20.42	21.01	21.11	15.90	15.70	13.60	1.27	1.21	4.28	17.03
1030.50	20.36	20.94	21.04	14.50	14.60	14.60	1.15	1.13	4.43	17.31
1132.60	20.41	20.99	21.07	14.90	13.80	14.00	1.14	1.11	4.62	17.38
1234.60	20.36	20.93	21.03	14.20	12.90	14.20	1.19	1.15	4.64	17.41
1387.70	20.21	20.75	20.80	14.10	13.60	14.50	1.30	1.17	4.32	17.59
1540.80	20.46	20.99	21.09	13.30	12.90	13.40	1.43	1.17	4.64	17.89
1693.80	20.93	21.51	21.59	12.00	11.40	12.20	1.49	1.12	5.05	17.70
1846.90	20.93	21.61	21.76	10.70	11.10	11.70	1.38	1.03	4.51	17.26
2000.00	19.68	20.54	20.69	13.30	13.10	13.10	1.12	1.09	4.90	16.11



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