

Plug-In Amplifier

AMP-2000+ AMP-2000

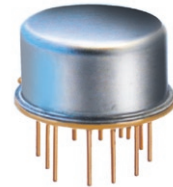
50Ω Medium Power 10 to 2000 MHz

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 in accordance
with EU Directive (2002/95/EC)**

*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

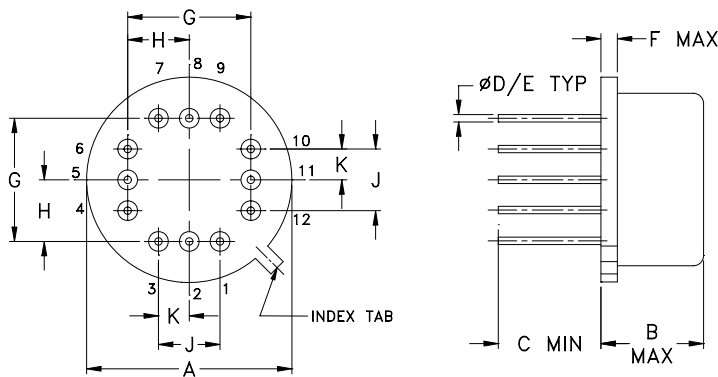
RF IN	5
RF OUT	11
DC	2
GROUND	1,3,4,6,7,8,9,10,12
CASE GROUND	1,3,4,6,7,8,9,10,12

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

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ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com
IF/RF MICROWAVE COMPONENTS

For detailed performance specs
& shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

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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

