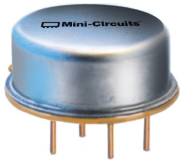
Plug-In

Low Noise Amplifier

AMP-76+

50Ω 5 to 500 MHz



CASE STYLE: PP120

Features

- low noise, 3.1 dB typ.
- hermetic, TO-8 can

Applications

- military, hi-rel applications
- small signal amplifiers
- printed circuit designs
- VHF/UHF

+RoHS Compliant

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

Low Noise Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		NOISE FIGURE (dB)	GAIN (dB)			MAXIMUM POWER (dBm)		INTERCEPT POINT (dBm)	VSWR (:1) Typ.		DC POWER	
					Flatness Max.								
	f_L	f_U	Typ.	Min.	m	Total Range	Output (1 dB Compr.)	Input (no damage)	IP3 Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
AMP-76+	5	500	3.1	26	±0.7	±1.0	+13.5	+6	+28	2.0	2.0	15	71

m = mid range [2 fL to fU/2]

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

Pin Connections

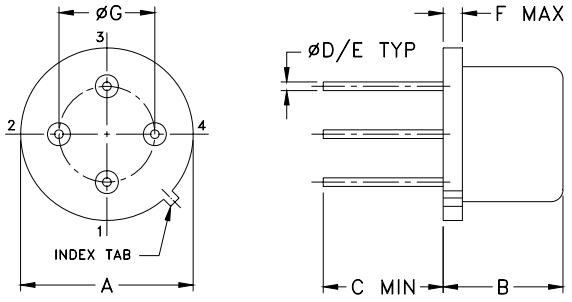
RF IN	2
RF OUT	4
DC	1
GROUND	3
CASE GROUND	3

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)

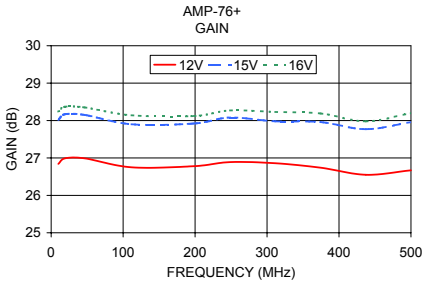
A	B	C	D	E	F	G	wt
.50	.21	.15	.016	.020	.04	.300	grams
12.70	5.33	3.81	0.41	0.51	1.02	7.62	1.5

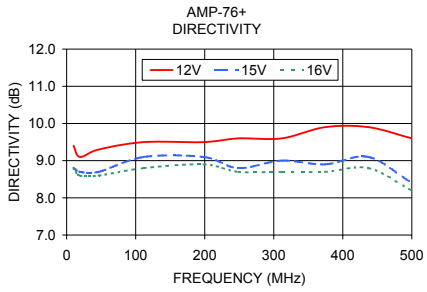
Notes

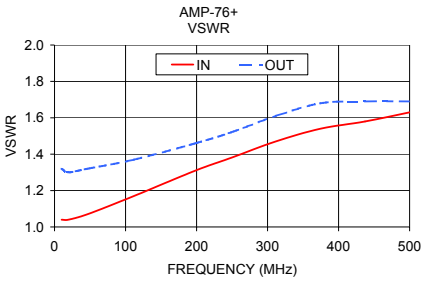
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document 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

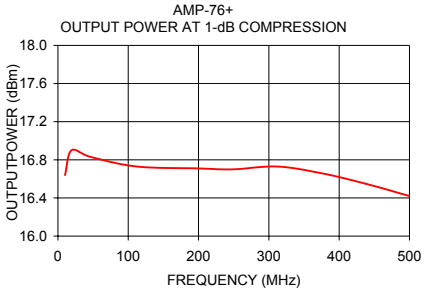
Typical Performance Data/Curves **AMP-76+**

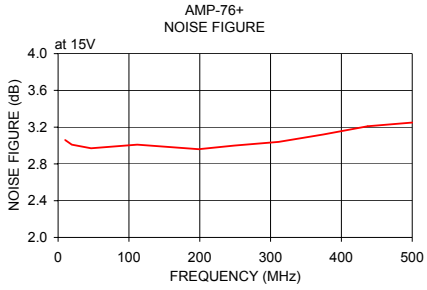
FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT	15V	15V
10.00	26.84	28.02	28.24	9.40	8.80	8.80	1.04	1.32	3.06	16.64
19.30	26.99	28.17	28.37	9.10	8.70	8.60	1.04	1.30	3.01	16.90
46.50	26.99	28.15	28.35	9.30	8.70	8.60	1.07	1.32	2.97	16.83
111.80	26.75	27.90	28.14	9.50	9.10	8.80	1.17	1.37	3.01	16.73
198.50	26.78	27.92	28.12	9.50	9.10	8.90	1.31	1.46	2.96	16.71
248.70	26.89	28.08	28.27	9.60	8.80	8.70	1.38	1.52	3.00	16.70
311.50	26.86	27.98	28.23	9.60	9.00	8.70	1.47	1.61	3.04	16.73
374.40	26.74	27.96	28.19	9.90	8.90	8.70	1.54	1.68	3.12	16.66
437.20	26.55	27.77	27.98	9.90	9.10	8.80	1.58	1.69	3.21	16.55
500.00	26.67	27.96	28.20	9.60	8.40	8.20	1.63	1.69	3.25	16.42











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