

Plug-In

Low Noise Amplifier

50Ω

5 to 500 MHz

AMP-76+

Features

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

Applications

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



CASE STYLE: PP120
PRICE: \$83.45 ea. Qty. (1-9)

+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	
	f_L	f_U		Min.	m	Total Range	Output (1 dB Compr.)	Input (no damage)		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

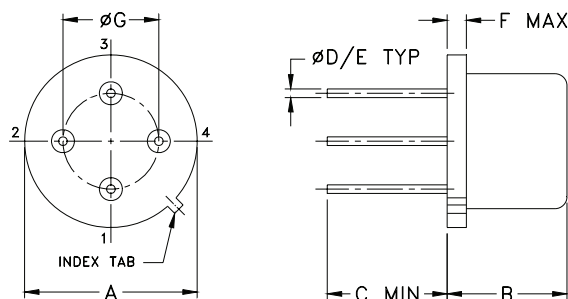
RF IN	2
RF OUT	4
DC	1
GROUND	3
CASE GROUND	3

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

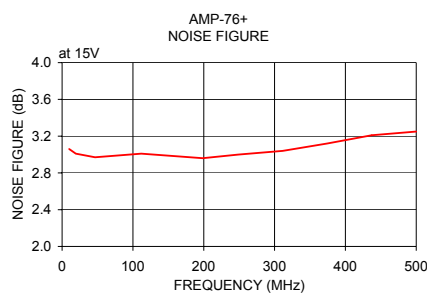
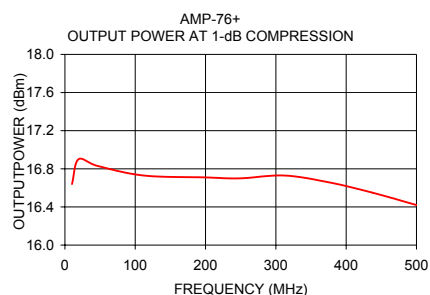
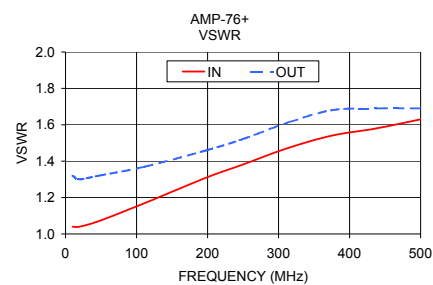
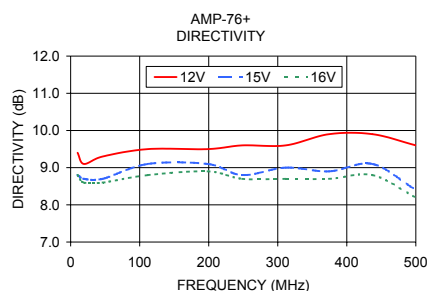
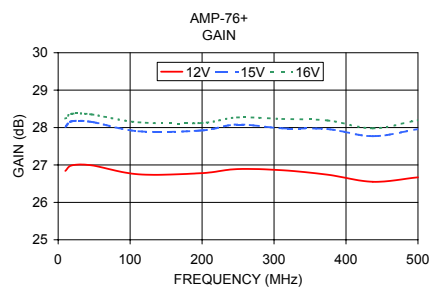
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Typical Performance Data/Curves

AMP-76+

FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	P _{OUT} at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT		
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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