

Plug-In Low Noise Amplifier

AMP-75+

50Ω 5 MHz to 500 MHz

Features

- very low noise, 2.4 dB typ.
- hermetic, TO-8 can.

Applications

- VHF/UHF
- military, hi-rel application
- small signal amplifier



Generic photo used for illustration purposes only

CASE STYLE: PP120

+RoHS Compliant

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

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		Typ.	Min.	m	Total Range	Output (1 dB Compr.)		Input (no damage)	IP3 Typ.	In	Out
AMP-75+	5	500	2.4	19	±0.4	±1.0	+12	+13	+28	2.0	2.0	15	31

m = mid range [2 f_L to $f_U/2$]

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

Pin Connections

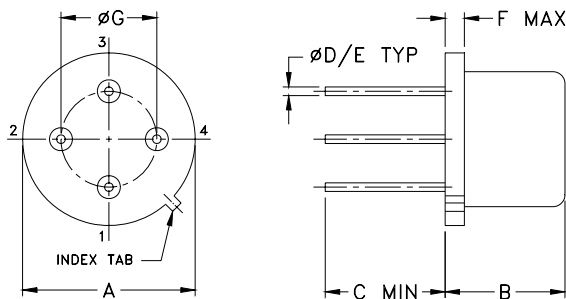
RF IN	2
RF OUT	4
DC	1
GROUND	3
CASE GROUND	3

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

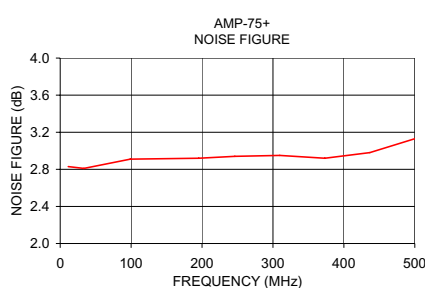
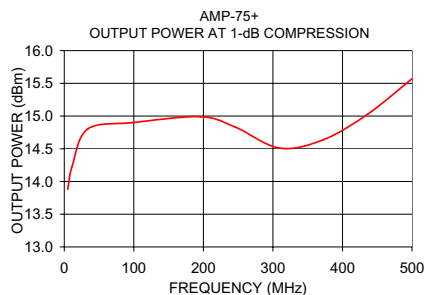
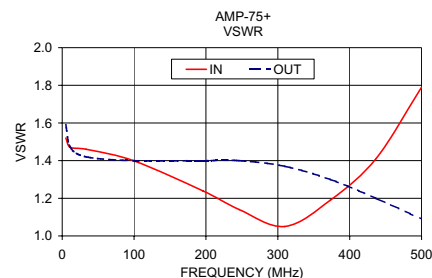
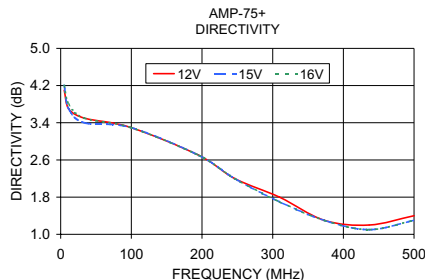
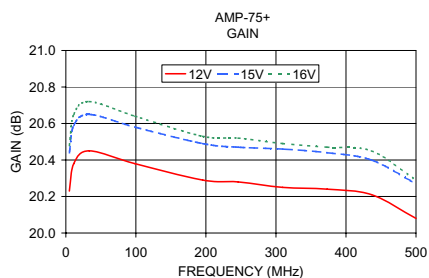
Notes

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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		
5.00	20.23	20.44	20.48	4.10	4.20	4.20	1.52	1.59	—	13.88
11.30	20.38	20.59	20.65	3.70	3.70	3.80	1.47	1.47	2.83	14.23
33.40	20.45	20.65	20.72	3.50	3.40	3.50	1.46	1.42	2.81	14.80
98.80	20.38	20.58	20.64	3.30	3.30	3.30	1.40	1.40	2.91	14.90
195.40	20.29	20.49	20.53	2.70	2.70	2.70	1.24	1.40	2.92	14.99
246.20	20.28	20.47	20.52	2.20	2.20	2.20	1.14	1.40	2.94	14.83
309.60	20.25	20.46	20.49	1.80	1.70	1.70	1.05	1.37	2.95	14.51
373.10	20.24	20.44	20.47	1.30	1.30	1.30	1.19	1.30	2.92	14.64
436.50	20.21	20.40	20.45	1.20	1.10	1.10	1.41	1.20	2.98	15.03
500.00	20.08	20.27	20.29	1.40	1.30	1.30	1.79	1.09	3.13	15.57



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