



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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□ BOX 5120 STN. F
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CANADA K2C 3H4
TEL: (613) 226-5772
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Model AV-134

Specifications

The Model AV-134 amplifier is designed to amplify bipolar nanosecond rise time baseband pulses in the pulse width range of about 0.5 nsec to 250 nsec and CW signals in the frequency range of 1.0 MHz to 2000 MHz. The basic specifications for the unit are as follows:

Gain:	>10 db
Peak output voltage:	±1.0 volt
Rise time:	<0.3 nsec
Impedance level:	50 ohms nominal
Bandwidth:	1.0 to 2000 MHz
Input VSWR:	<2.0:1
Output VSWR:	<2.0:1
Max. noise figure:	7 db
Prime power:	+15 V. 60 mA
Connectors:	SMA
Size:	1.4 x 1.1 x 2.3 inches



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Model AV-134A-PS1

The Model AV-134A-PS1 amplifier is designed to amplify nanosecond rise time baseband pulses in the pulse width range of about 1 ns to 500 ns and CW signals in the frequency range of 1.0 MHz to 2.5 GHz. The basic specifications for the unit are as follows:

Gain:	≥ 26 db
Peak output voltage:	± 1 volt
Impedance level:	50 ohms nominal
Input VSWR:	$\leq 2.5:1$
Output VSWR:	$\leq 2.5:1$
Max. noise figure:	2.5 db
Dynamic range:	≥ 60 db
Rise time:	≤ 300 ps
Prime power:	+12 VDC 20 mA max
Connectors:	SMA
Size:	1.4 x 1.1 x 2.3 inches

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Fax Ref No: 6345 From: Avtech Electrosystems Ltd.

To: Patriot Scientific Our Fax No: 613-226-2802

Date: July 8, 1993

Attn: Hamid Zakria Receivers
Tel: 619-679-4428 Fax No: 619-486-3922

Subject: Low noise amps No. pages
Faxed: 2

Following my quote of June 17 and our subsequent telephone conversations, I am pleased to quote as follows:

A) Model designation: AV-134A-PS1

Noise figure: 2.8 db

Bandwidth: 1 MHz to 2.5 GHz. We find that we can not set the lower bandwidth at 500 MHz. You could do this at your end by using a 500 MHz high pass filter (contact suppliers such as K&L Microwave and TTE Inc.)

Prime power: +12 VDC

Price: \$848.00 US each, FOB destination (i.e. delivered on your doorstep)

Delivery: 30-45 days

B) Model designation: AV-134A-PS2
Noise figure: 2.8 db
Bandwidth: 1 MHz to 2.0 GHz. For 100 MHz lower
cutoff frequency see above discussion
re high pass filters
Prime power: +12 VDC
Price: \$848.00 US each, FOB destination
(i.e. delivered on your doorstep)
Delivery: 30-45 days

Rgds



Dr. Walter Chudobiak
Chief Engineer

WC:pr

Sept. 16, 1993

File saved in Word as of Oct 16/97

File: c:\INSTRUCT\AV-1134APS1.DOC

Note: File adjusted in Word