



**AVTECH ELECTROSYSTEMS LTD.**

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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U.S.A. & CANADA

☒ BOX 5120 STN. F  
OTTAWA, ONTARIO  
CANADA K2C 3H4  
TEL: (613) 226-5772  
FAX: (613) 226-2802

INSTRUCTIONS

MODEL AV-142-NASA1 AMPLIFIER

S.N. :

### WARRANTY

Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech shall at its option repair or replace said defective item. This warranty does not apply to units which have been disassembled, modified or subjected to conditions exceeding the applicable specifications or ratings. This warranty is the extent of the obligation or liability assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

## Model AV-142-NASA1

### Specifications

The Model AV-142-NASA1 amplifier is designed to amplify bipolar baseband pulses in the pulse width range of about 5 ns and higher and CW signals in the frequency range of DC to 100 MHz. The basic specifications for the unit are as follows:

Gain:	$\geq$ x10 voltage (inverting)
Bandwidth:	DC to 100 MHz
Peak output voltage (to 50 Ohms or higher):	$\pm$ 5.0 Volt
Rise time:	$\leq$ 3 ns
Input impedance:	500 Ohms
Input noise level:	32 uV
Prime power:	$\pm$ 15 V, 200 mA (max)
Connectors:	BNC
Size:	1.7 x 2.6 x 4.3 inches

The DC offset on the output may set to zero by making minor adjustments to the one turn OS pot.

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June 24, 1994.

Dr. Ken Lincoln  
MS 234-1  
Elobet Institute  
Nasa-Ames Research Center  
Moffattfield, CA 95035-100

Dear Ken:

Following your recent telephone request, I am pleased to enclose the following literature:

- 1) General catalog No. 8
- 2) Catalog No. 8S2
- 3) Price list

Models AV-142 and AV-143 are described on page 94 of Cat. No. 8.

I am pleased to offer a price and delivery quotation for a model AV-142 modified to meet the following specifications.

Model designation: AV-142-NASA1  
The -NASA1 suffix provides:  
a) An inverting configuration  
b) x 10 voltage gain  
c) BNC connector  
d)  $\pm 15$  VDC prime power  
Other specifications are as per the standard model.

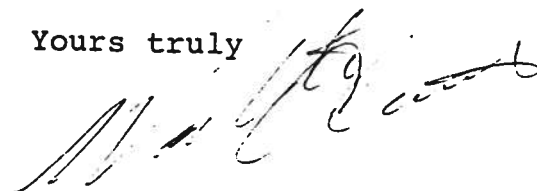
e)  $R_{in} = 500 \Omega$

Price: \$998.00 US each, FOB destination (ie delivered on your doorstep).

Delivery: 30-45 days.

Thank you for your interest in our products. Please call me again (1-800-265-6681) if you require any additional information.

Yours truly

A handwritten signature in black ink, appearing to read 'W. Chudobiak', written in a cursive style.

Dr. Walter Chudobiak  
Chief Engineer

WC:dh  
Encl.

Feb. 23/95

Disk: AV-

Name: 142NASA1.INS