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AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS

P.O. BOX 265
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U.S.A. 13669-0265
TEL: (315) 472-5270
FAX: (613) 226-2802

BOX 5120 STN. F
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
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Model AV-143-IBMC

Specifications

The Model AV-143-IBMC amplifier is designed to amplify positive baseband pulses in the pulse width range of about 100 nsec and higher. The basic specifications for the unit are as follows:

Gain:	x6 (voltage)
Bandwidth:	DC to 15 MHz
Peak output voltage (to 1000 ohms or higher):	+30 volts
Rise time:	< 60 ns
Input impedance:	50 ohms
Prime power:	+24 V, 500 mA (max)
Connectors:	SMA
Size:	1.7 x 2.6 x 4.3 inches

For output amplitude in the range of 25 to 31 Volts, the one turn front panel OS pot may be used to largely eliminate overshoot on the output. At time of shipping the pot was adjusted for 5 Volts in; 30 Volts out, with minimal overshoot.

CAUTION: The unit should be bolted to a heat sink to insure that it does not overheat.

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
ENGINEERING – MANUFACTURING

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CANADA K2C 3H4
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FAX: (613) 226-2802

February 10, 1992.

Dear

Following our telephone conversation of February 5, I am pleased to provide a price and delivery quotation for two special purpose amplifiers meeting the following specifications:

A)

Model designation:	AV-143-IBMB.
Voltage gain:	x6. Non-inverting. Accepts +5 Volt input pulse and provides +30 Volt output pulse to a high load impedance ($R_L > 1$ K).
Maximum output:	+30 Volts.
Rise time:	$\leq$ 80 ns.
Settling time and overshoot:	$\leq$ 1/3 of that for Model AV-143-IBMA.
Bandwidth:	DC to 10 MHz.
Input impedance:	50 Ohms.
Prime power:	+24V DC, 500 mA max.
Package size and material:	1.7" x 2.6" x 4.3", cast aluminum, blue enamel finish. Suitable for "briefcase" environment.
Input and output connectors:	SMA.

DC input connector:	Solder terminal.
Other:	See standard Model AV-143, page 94, Cat. No. 8.
Price:	$1,498.00 US, FOB destination (i.e. on your doorstep).
Delivery:	3 weeks ARO.

B)

Model designation:	AV-143-IBMC.
Voltage gain:	x6. Non-inverting. Accepts +5 Volt input pulse and provides +30 Volt output pulse to a high load impedance ($R_L > 1$ K).
Maximum output:	+30 Volts.
Overshoot and settling time:	$\leq$ 0.1 of that for Model AV-143-IBMA. Includes a one turn control which must be adjusted to set overshoot to minimum value.
Rise time:	$\leq$ 60 ns.
Bandwidth:	DC to 15 MHz.
Input impedance:	50 Ohms.
Prime power:	+24V DC, 500 mA max.
Package size and material:	1.7" x 2.6" x 4.3", cast aluminum, blue enamel finish. Suitable for "briefcase" environment.
Input and output connectors:	SMA.
DC input connector:	Solder terminal.
Other:	See standard Model AV-143, page 94, Cat. No. 8.
Price:	$1,698.00 US, FOB destination (i.e. on your doorstep).
Delivery:	3 weeks ARO.

Thank you for your interest in our products. Please call me again if you require any additional information or modifications to the above quotation.

Yours truly,

Walter J. Chudobiak
Chief Engineer

WJC:pr
Encl. Cat. No. 8S1
Price list

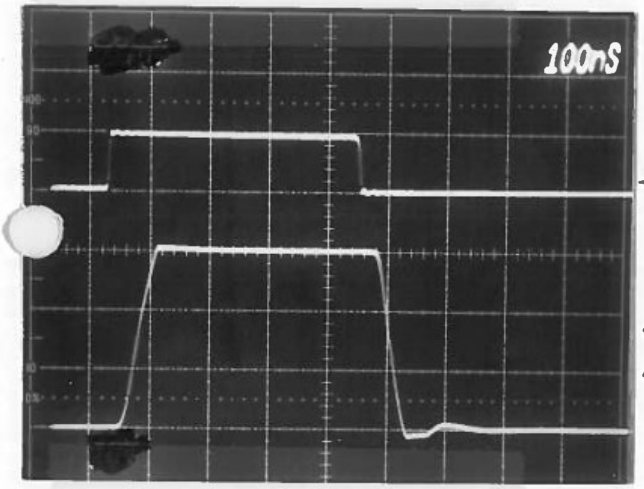
PULSE GENERATOR

PERFORMANCE CHECK

Model: AV-143 - IBMC

S.N.: 6414

Date: SEPT 2 1992



V_{IN}
5 VOLTS/DIV

V_{OUT}
10 VOLTS/DIV

R_L = 1K.

a) Output signal amplitude:
0 TO +30 VOLTS TO $R_L > 1K$

b) Pulse width:
100 NS TO DC

c) Rise time:
≤ 60 NS

d) Fall time:
≤ 60 NS

e) GAIN: x6 (VOLTAGE)

f) Jitter, stability:
OK

g) Prime power:
+24 V
450 mA. (MAX)

h) R_{in}: 50 Ω

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