



# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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

TEL: 1-800-265-6681  
FAX: 1-800-561-1970

e-mail: [info@avtechpulse.com](mailto:info@avtechpulse.com)  
<http://www.avtechpulse.com/>

BOX 5120, LCD MERIVALE  
OTTAWA, ONTARIO  
CANADA K2C 3H4  
TEL: (613) 226-5772  
FAX: (613) 226-2802

## INSTRUCTIONS

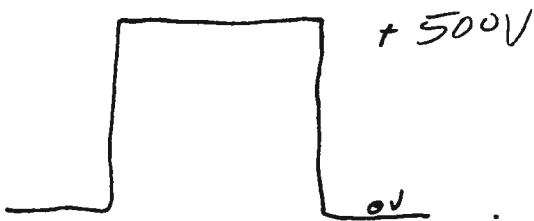
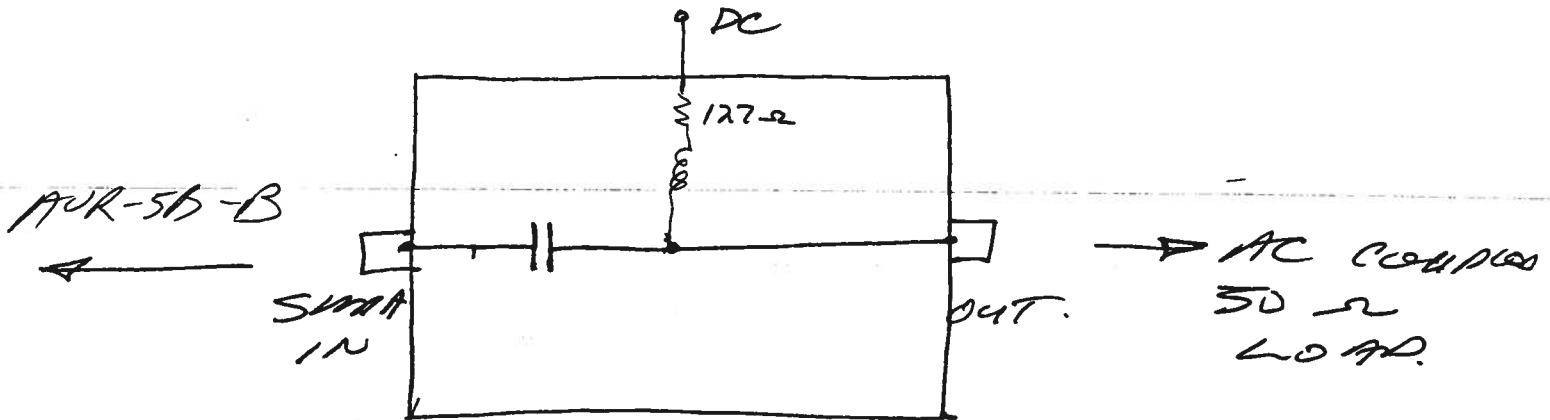
### MODEL AVX-TD-MSB

- 1) The functional equivalent circuit for Model AVX-TD-MSB is shown on the attached.
- 2) Note that the pulse width must not exceed 100 us.
- 3) The DC voltage must not exceed  $\pm 100$  Volts.
- 4) The DC current must not exceed 10 mA.
- 5) For additional assistance:

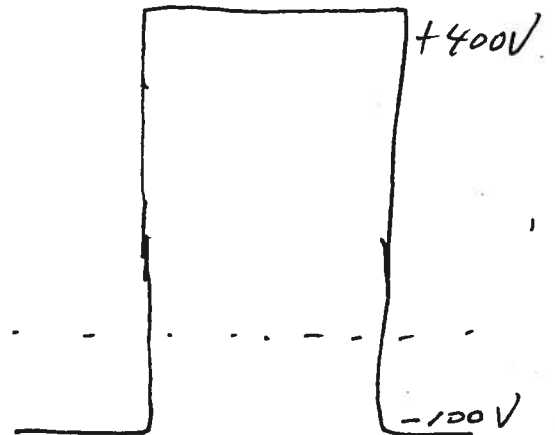
Tel: (613) 226-5772  
Fax: (613) 226-2802  
E-mail: [info@avtechpulse.com](mailto:info@avtechpulse.com)

# AVX-TD - MS.B

0 TO  $\pm 100$  V ( $\pm 10$  mA MAX)



PULSE INPUT



OUTPUT FOR  
+500 PULSE AND  
-100 VDC IN.  
CAUTION: LIMIT  
 $I_{DC}$  TO 10 mA.

Date: Mon, 20 Dec 2004 09:40:39 -0500  
From: Avtech Sales  
To: "Bob Martin ( RDM-Apps)"  
Subject: Re: Attn. WALTER ... Specs. we discussed for quotations

---

Dec. 20, 2004  
Robert Martin  
RDM-Apps  
Tel: 949-683-9060  
Fax 866-830-9113

Dear Bob:

1) Following our telephone conversation of Dec. 17, 2004, I am pleased to quote as follows:

Quote Number: 12406.01

Model designation: AVR-5B-B-PN-MSB

Output amplitude: 0 to  $\pm$  500 Volts to 50 Ohms (10 Amps)

Output pulse width: 100 ns to 100 us

Rise time: equal to or less than 20 ns

Fall time: equal to or less than 20 ns (particular attention to be given to the falling edge to reduce the spurious).

GPIO control: Yes

Other: See standard AVR-5B-B, <http://www.avtechpulse.com/medium/avr-5b>

Price: \$12,130.00 US, FOB destination.

Delivery: 60 days, after receipt of order.

Note: For a unit providing only a positive output, replace the -PN suffix with -P and deduct \$2,698.00 US from the price.

2) I am also pleased to quote as follows for a special purpose bias insertion unit designed for use with model AVR-5B-B-PN to obtain 10 Amp reverse recovery measurements.

Quote Number: 12406.02

Model designation: AVX-TD-MSB 

Pulse Width Range: 100 ns to 100 us

Rise time: equal to or less than 20 ns

Max Bias Voltage:  $\pm$  100 VDC. Please confirm that this rating is sufficient for your application.

Max Bias Current: 10 mA

Max Pulse Amplitude:  $\pm$  500 Volts to 50 Ohms

Pulse Connectors: SMA

Dc Connectors: Solder Terminal

Chassis size: 1.75" x 4.25" x 8.5"

Other: See standard AVX-TD, <http://www.avtechpulse.com/bias/avx-td>.

Price: \$1,998.00 US, FOB destination.

Delivery: 60 days, after receipt of order.

3) We are also pleased to quote as follows for a 5 Amp forward recovery pulser.

Quote Number: 12406.03

Model designation: AVR-3-B-P-MSA

Output amplitude: 0 to +250 Volts to 50 Ohms (+5 Amps max)

Output pulse width: 100 ns to 5 us

Rise time: equal to or less than 10 ns

Fall time: equal to or less than 10 ns

GPIO control: Yes

Other: See standard AVR-3-B-P, <http://www.avtechpulse.com/medium/avr-3>

Price: \$7,708.00 US, FOB destination.

Delivery: 60 days, after receipt of order.

4) Thank you for your interest in our products. Please call or e-mail me if you require any further information.

Regards,

Dr. Walter Chudobiak  
Senior Engineer

--- Avtech Electrosystems Ltd. ----- since 1975 ---

PO Box 265	ph: 1-800-265-6681 or 613-226-5772	Box 5120,
Ogdensburg,	fax: 1-800-561-1970 or 613-226-2802	LCD Merivale
New York	email: <a href="mailto:info@avtechpulse.com">info@avtechpulse.com</a>	Ottawa, Ontario
USA 13669-0265	<a href="http://www.avtechpulse.com/">http://www.avtechpulse.com/</a>	Canada K2C 3H4

Nanosecond Waveform Generators  
for general purpose, R&D and OEM applications

Pulse Generators - Laser Diode Drivers - Pulse Amplifiers  
Impulse Generators - Current Pulsers - Delay Generators - Splitters  
Function Generators - Monocycle Generators - Frequency Dividers + more!  
-----

Bob Martin ( RM-Lapps) wrote:

```

>
>
> High Current TRR
> 1.) 50 ohm Positive Pulse Pulser: 100us pulse width; 500V; 10-20ns Fall
> time (emphasis on trailing edge); 488 interface
> 2.) 50 ohm Bias tee: 300V Max.; Rise/Fall time 10-20ns
>
> High Current TFR
> 1.) 50 ohm Positive Pulse Pulser: 5us pulse width; 250V; 10-20ns Fall
> time; 488 interface
>

```

Mar 16/05