AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS ENGINEERING - MANUFACTURING

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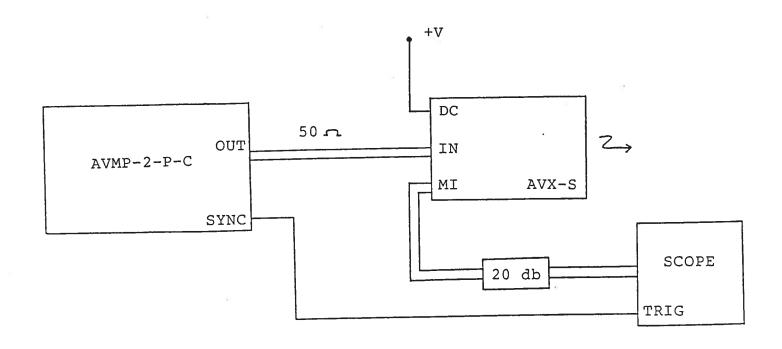
INSTRUCTIONS

MODEL AVX-S-IBM2-MI-MV-M BIAS TEE

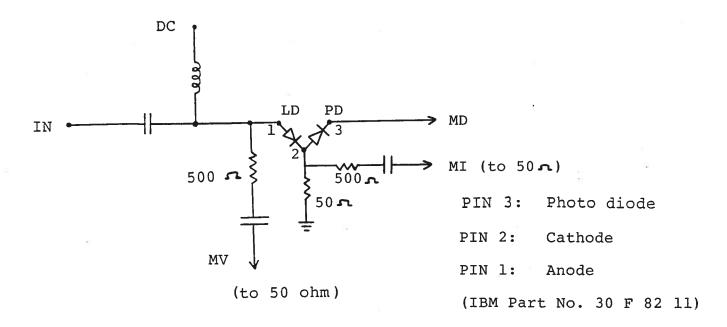
S.N.:

WARRANTY

Avtech Electrosystems Ltd. warrants products of manufacture to be free from defects in material 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 dissembled, 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.



FUNCTIONAL EQUIVALENT CIRCUIT Fig. 2



Notes:

- The DC terminal of the bias insertion must either be shorted to ground (if a DC offset is not required) or a DC power supply must be applied. The laser diode will not function if the DC terminal is open circuited. Note that the DC current must not exceed ±100 mA.
- The MI port must be terminated into 50 ohms. Note that a 20 db (or larger) attenuator should be placed between the AVX-S MI output and the scope input since the MI output is very nearly equal to the amplitude of the input drive pulse.
- The diode current I_D (Amps) and the MI output voltage are related as follows:

$$I_D = 0.2 MI$$

4) The MV output port also requires a 50 ohm termination. The voltage across the laser diode ($V_{\rm D}$) is given by the following:

$$V_{\mathbf{p}} = 10 \, (MV - MI)$$

where MV and MI are the voltages (into 50 ohms) at the MV and MI output ports.

5) The AVX-S input may be a sinusoid in the frequency range of 10 MHz to 1 GHz. For this mode of operation, a DC offset must be applied to the DC terminal.

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Fax No:	2617		Our Fax No:	613-226-2802	
To:	IBM Corp.		Your Ref No:	Si .	
	914-894-3853		Our Ref:		
Attn:	John Ferrario		Date:	April 2, 1990	
			Receivers	1	
From:	Avtech Electrosystems Ltd.	. N	Fax No:	914-894-6891	
Subject:	Quote - Laser Diode Bias Insertion Unit		No. pages	3	
With reference to your fax of March 13th, I am pleased to offer the following quotation for a special purpose laser diode bias insertion unit with TO 18 socket mounting.					
Mode	el designation:	AVX-	S-IBM2-MI-M\	/-M	
Band	Bandwidth:		10 MHz to 1 GHz.		
Inp	ut impedance:		hms (assumes	s a diode impedance	
Inp	ut connector:	SMA			
Dio	de connector:			Pin connections No. 30F8211.	
Pho	to diode output connector:	Sold	ler terminal	•	
Las	er diode current monitor connector:	SMA			
Las	er diode voltage monitor connector:	SMA		18 18	
DC	bias:			ser applies required older terminal.	
				/2	

Package size:

1.6" x 2.6" x 3.0" (see enclosed

drawing).

Functional equivalent circuit: See enclosed drawing.

Price:

\$1290.00 U.S. each. FOB: destination

Delivery:

60 days ARO

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

Rgds

Walter J. Chudobiak

Chief Engineer

WJC:sm

