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
http://www.avtechpulse.com/

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

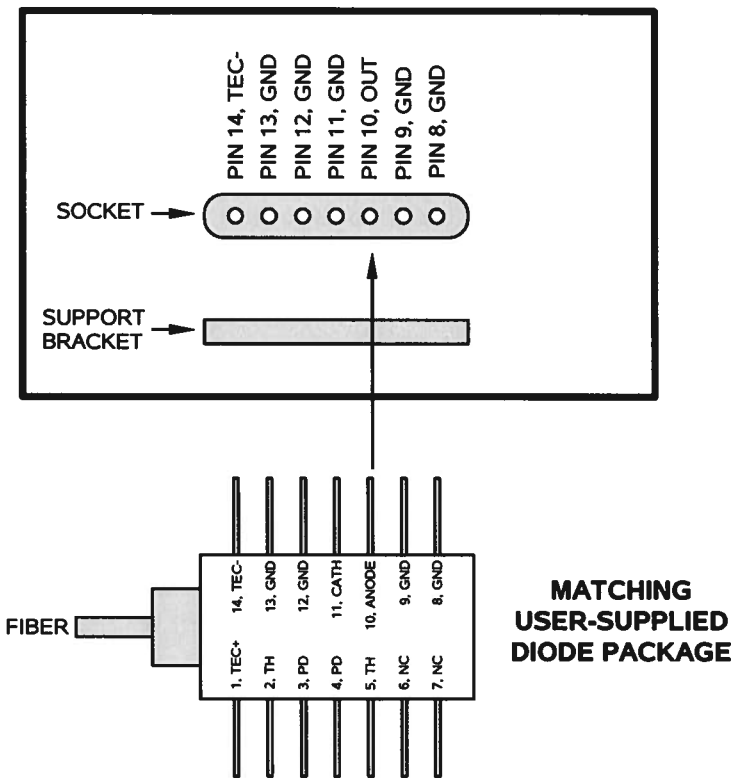
INSTRUCTIONS

MODEL AVX-S1-P1-MEGC

PLUG-IN SOCKET OUTPUT MODULE

SERIAL NUMBER: 11175

AVX-S1-P1-MEGC SOCKET VIEW



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 dissembled, modified or subjected to conditions exceeding the applicable specifications or ratings. This warranty is the extent of the obligation assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

TECHNICAL SUPPORT

Phone: 613-226-5772 or 1-800-265-6681
Fax: 613-226-2802 or 1-800-561-1970

E-mail: info@avtechpulse.com
World Wide Web: http://www.avtechpulse.com

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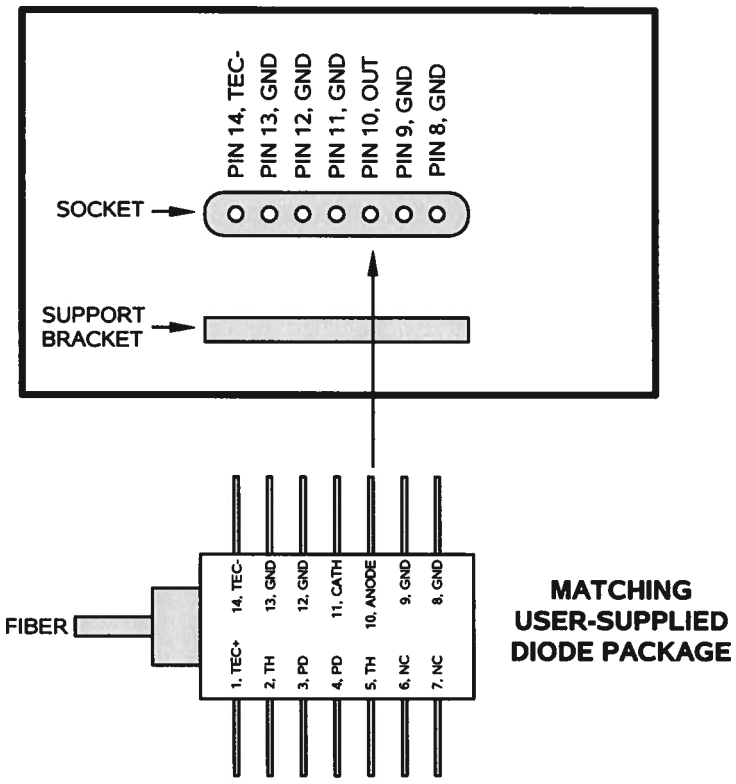
Manual Reference: T:\instructword\avx-s\AVX-S1-P1-MEGC,sn11175.sxw.
Last modified April 5, 2005.

INTRODUCTION

The AVX-S series of bias insertion units is designed to combine a pulse signal with a DC bias, and supply the resulting signal to a laser diode, which is inserted into a high quality socket included on the mount. The bias insertion module includes the necessary networks to match the laser diode to the pulse source, as well as networks for applying DC bias to the diode.

The AVX-S1-P1-MEGC is specifically designed to accommodate the Lumics "LU1064_fbg_close" butterfly-packaged laser diode with the pinout illustrated below:

AVX-S1-P1-MEGC SOCKET VIEW



ORIGINAL QUOTATION

Date: Fri, 25 Feb 2005 07:31:43 -0500
From: Avtech Sales
Subject: Re: AVO-9 series

XXXXX,

I am pleased to re-quote as follows (with accessible pin 14):

Quote number: 12481

Model number: AVX-S1-P1-MEGC

Description: Laser Diode Bias Insertion Unit with Socket, intended for use with the AVO-9A-C-P-TO3-MEGA mainframe (S/N 11094). The socket will accept pins 8-14 of the Lumics LU1064_fbg_close butterfly-packaged laser diode described in the datasheet that you have supplied. A positive pulse will be applied to the diode anode (pin 10). Pins 8-9 and 11-13 will be grounded. Pin 14 will be made accessible through a solder terminal.

Other: as per the standard AVX-S1, described at
http://www.avtechpulse.com/laser-bias/avx-s1

Price: $XXXXX US each, FOB destination. Valid only for delivery within the United States. This product is not subject to export controls.

Quote valid for: 60 days

Estimated delivery: 30 days after receipt of order.

Please call or email me if I can be of further assistance.

Thank you for your interest in our products!

Regards,
Dr. Michael J. Chudobiak
Chief 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: info@avtechpulse.com Ottawa, Ontario
USA 13669-0265 http://www.avtechpulse.com/ Canada K2C 3H4

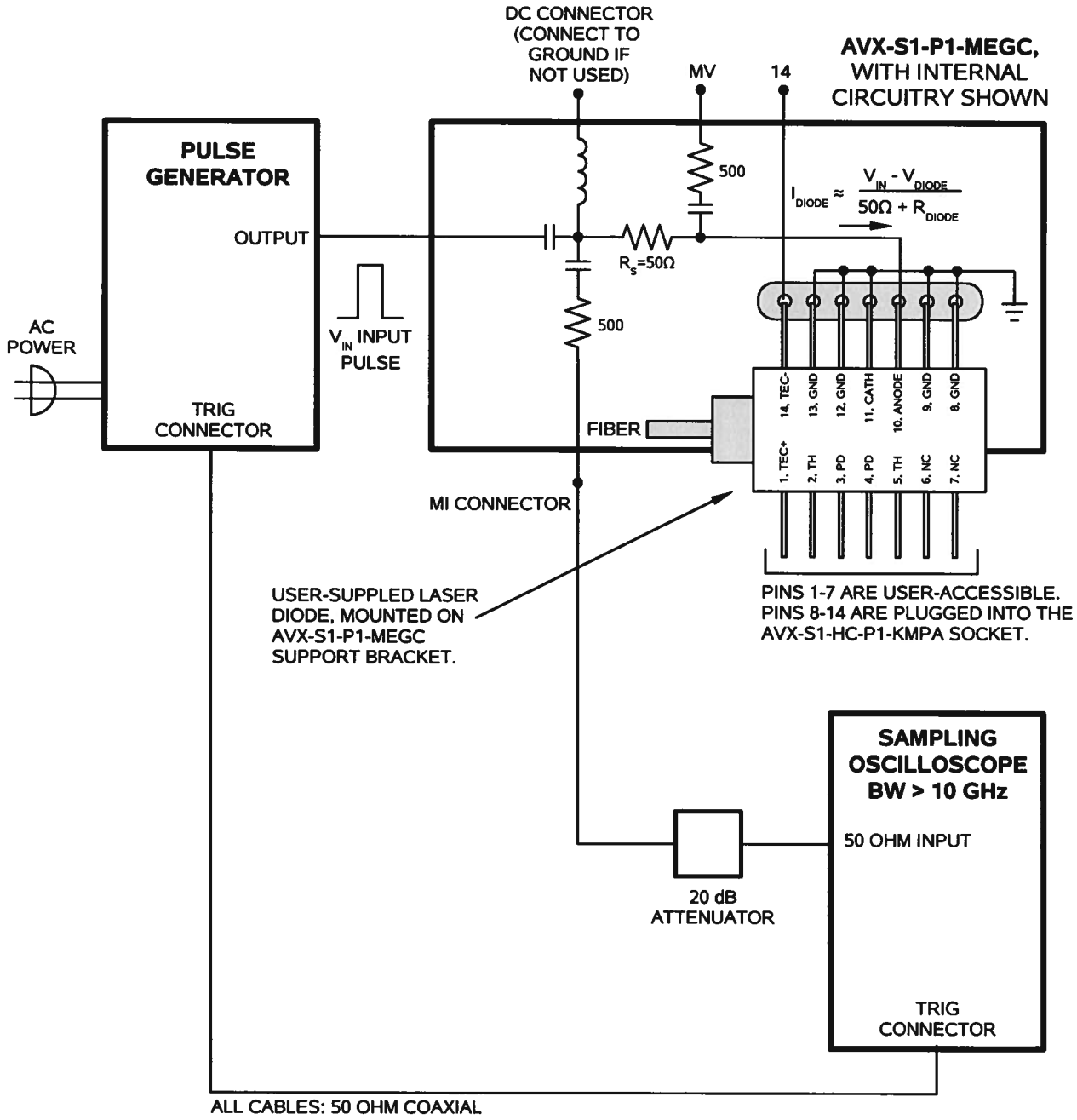
SPECIFICATIONS

Model:	AVX-S1
Peak diode current:	400 mA
Max. input amplitude:	20 Volts
Pulse width (ns):	0.4 - 200
Rise time (ns):	0.2
Pulse PRF range:	DC-100 MHz
Max. bias current:	100 mA
Max. bias voltage:	50 Volts
Input impedance:	50 Ohms
R_S:	50 Ohms
IN connector:	SMA
Monitor connector:	SMA
Bias connector:	Solder pin
Dimensions:	H x W x D: 41 mm x 66 mm x 76 mm (1.6" x 2.6" x 3.0")
Material:	Cast aluminum, blue enamel
Mounting:	Any

GENERAL INFORMATION

BASIC TEST ARRANGEMENT

To fully test the AVX-S1-P1-MEGC, and for normal operation, the output module should be connected as shown below:



The diode load is inserted into the socket on the output module, as shown above.

April 5/05