

# OC-768 LN MODULATOR DRIVER AMPLIFIER\*

## Model FO-MDA-40-00

**Applications:** Lithium Niobate (LiNbO3) Modulator for OC-768.

### Features:

- ◆ Output Voltage Control
- ◆ Electronic Crossing % Control
- ◆ Temperature Compensated Output Level Detector Option
- ◆ Output Voltage Dither Capability

### Data Rates:

Data Rates up to 44 Gb/s

### Input/Output Voltage:

6 Vp-p Output Amplitude  
0.5 Vp-p Input Amplitude  
3V Output Amplitude Control Range

### Connectors:

RF: V Connector (Optional GPP0)

DC: Solder Pin

### DC Power:

+9V @ 300 mA

-9V @ 20 mA

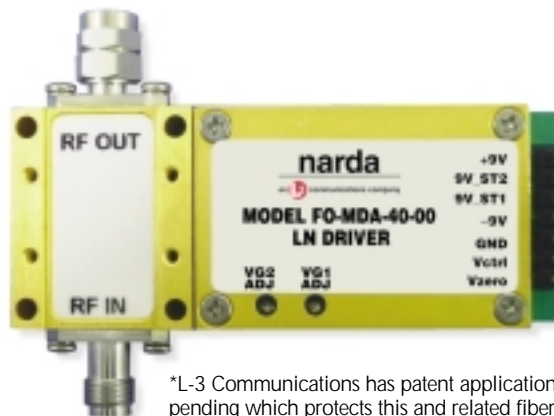
Internally Regulated

Automatic DC Bias Sequencing

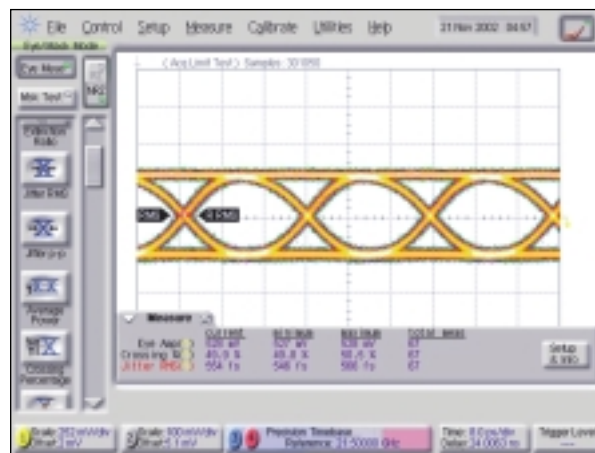
### Options:

Units with alternative control and power regulation features are available.

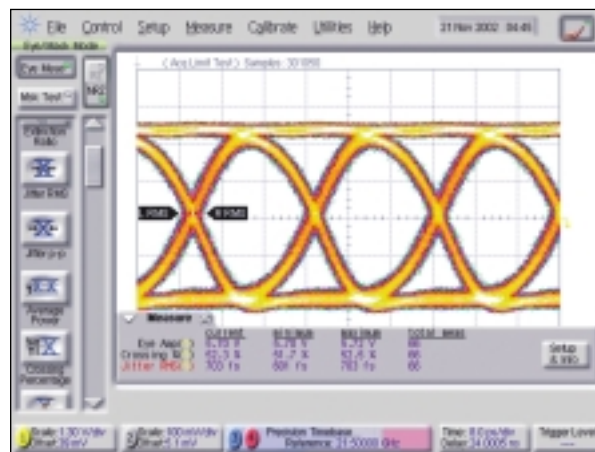
Please consult the factory for models with other capabilities/features.



\*L-3 Communications has patent applications pending which protects this and related fiber optic products.



Input Signal, Input Eye Amplitude 0.5 Vp-p



Output Signal, Output Eye Amplitude 6 Vp-p

# narda

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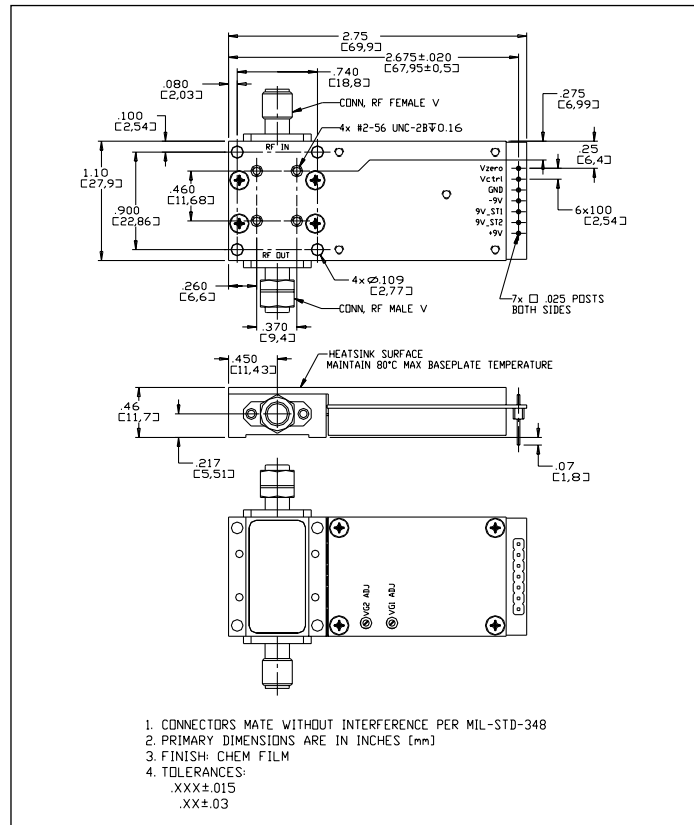
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## Preliminary Specifications

PARAMETER	MINIMUM	TYPICAL	MAXIMUM
Data Rate			44 Gbps
Minimum Operating Frequency			80 kHz*
Output signal Amplitude (max)	5.8 Vp-p	6.0 Vp-p	
Output signal Amplitude (min)			3 Vp-p
Input Voltage		.5 Vp-p	
Input Return Loss		-10 dB	
Output Return Loss		-10 dB	
Rise/Fall Time		5 ps	
RMS Jitter		.5 ps	
Positive (+9V) Supply Current		300 mA	
Negative (-9V) Supply Current		20 mA	
Operating Case Temperature	-5° C		80° C

\*Optional version available with 30 kHz low frequency 3 dB rolloff.

## Outline Drawing



Contact Narda for your custom requirements.

L-3 Communications has patent applications pending which protects this and related fiber optic products. These products may also be protected by other intellectual property rights including trademarks and copyrights.