

OC-768 EA MODULATOR DRIVER AMPLIFIER*

Model FO-MDA-40-03

Applications: Electro Absorptive Modulator (EAM) for OC-768.

Features:

- ◆ Output Voltage Control
- ◆ Electronic Crossing % Control
- ◆ Temperature Compensated Output Level Detector Option
- ◆ Output Voltage Dither Capability
- ◆ Laser Sealed Hermetic Package

Data Rates:

Data Rates up to 44 Gb/s

Input/Output Voltage:

4 Vp-p Output Amplitude
0.5 Vp-p Input Amplitude
2V Output Amplitude Control Range

Connectors:

RF: V Connector
GPPO (option)
Pin w/ glass feedthru (option)

DC Power:

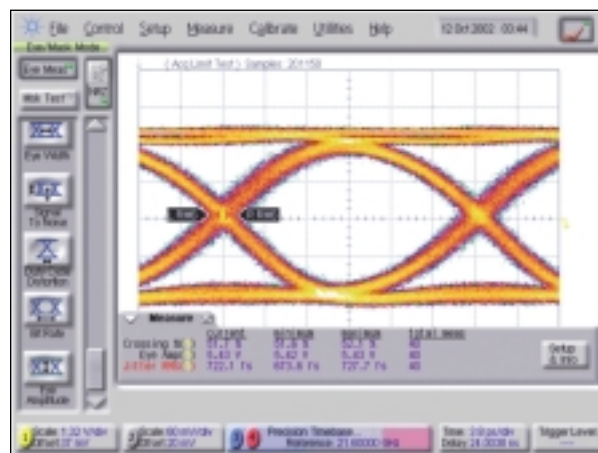
+9V @ 240 mA nominally
-9V @ 20 mA
Internally Regulated
Automatic DC Bias Sequencing

Options:

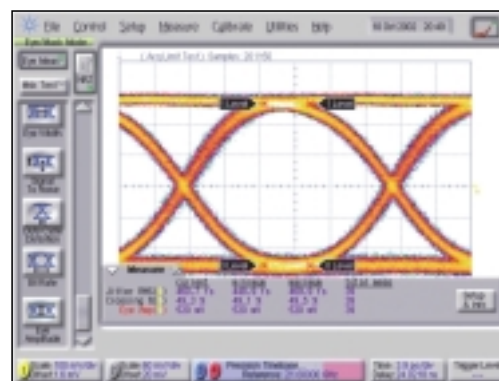
Units with alternative control and power regulation features are available.

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



Output Signal – 4 Vp-p @43.2 Gb/s



Input Signal - .5 Vp-p .7ps RMS jitter

narda

an  communications company

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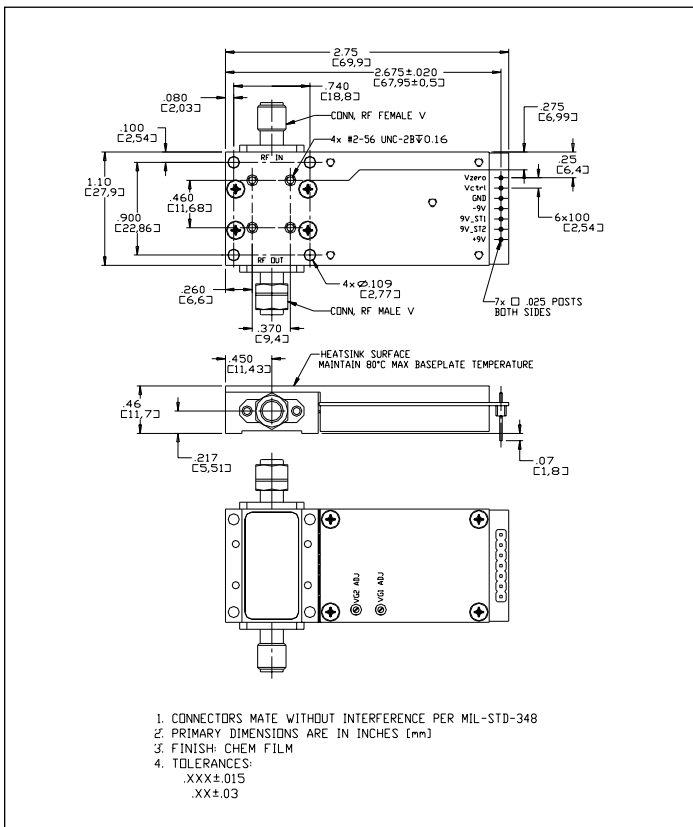
Preliminary Specifications

PARAMETER	MINIMUM	TYPICAL	MAXIMUM
Data Rate			44 Gbps
Minimum Operating Frequency			80 kHz*
Output signal Amplitude (max)	3.5 Vp-p	4.0 Vp-p	
Output signal Amplitude (min)			2 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		240 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 Drawings

With Interface Electronics (Optional)



EA Driver (Model FO-MDA-03)

