

OC-192 NRZ and Duobinary Modulator Drivers

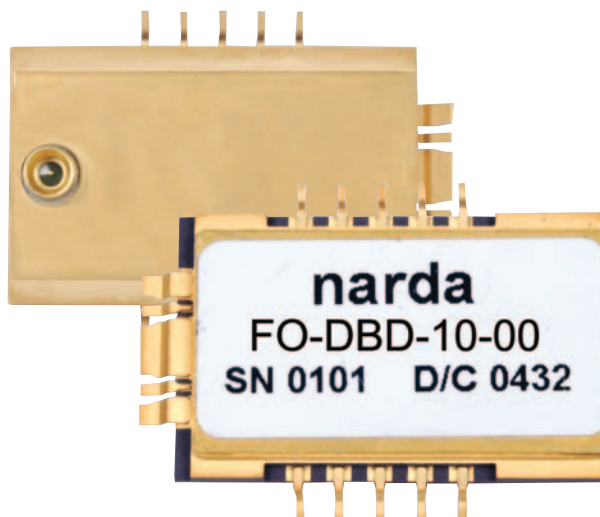
Model FO-MDA-10-00 OC192 NRZ Driver Amplifier

Model FO-DBD-10-00 OC192 Duobinary Driver Amplifier

Applications: Drive lithium niobate (LiNbO₃) or other types of optical modulators.

Features:

- ◆ High Output Voltage 10Vpp (Lower Peak Output Voltage Units Available)
- ◆ Wide Output Amplitude Control Range (6dB)
- ◆ Duobinary Model Includes Bessel Low Pass Filter
- ◆ Electronic Crossing % Control
- ◆ Temperature Compensated Output Level Detector Available



Data Rates:

Data rates to 11.2Gbps

Input/Output Voltage:

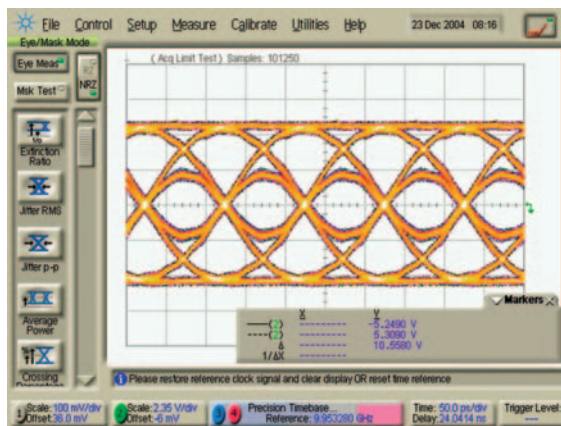
- ◆ 10Vpp output amplitude single ended
- ◆ Input can be driven either single ended or differentially
 - ◆ 0.4Vpp to 1Vpp single ended
 - ◆ 0.2Vpp to 1Vpp differential

Packaging:

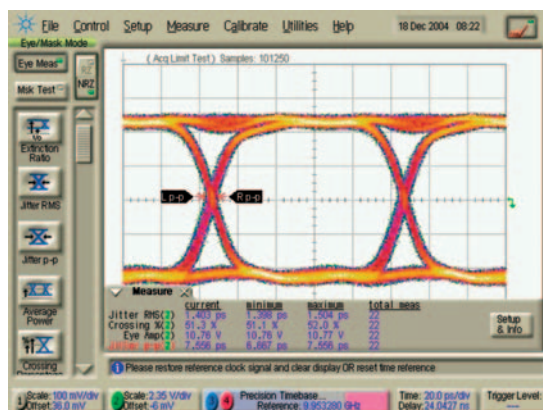
- ◆ Surface Mount Package
- ◆ Standard unit has GPPO output connector.
- ◆ Optional surface mount connection at data output

Options:

Please consult the factory for models with other capabilities/features



Duobinary Eye Diagram



NRZ Eye Diagram

narda

an L3 communications company

435 Moreland Road • Hauppauge, NY 11787 • USA Tel: 1-631-231-1700 • Int'l Tel: 1-631-231-1390
FAX: 1-631-231-1711 e-mail: nardaeast@L3com.com • www.nardamicrowave.com

OC-192 NRZ and Duobinary Modulator Drivers

Model FO-MDA-10-00 OC192 NRZ Driver Amplifier

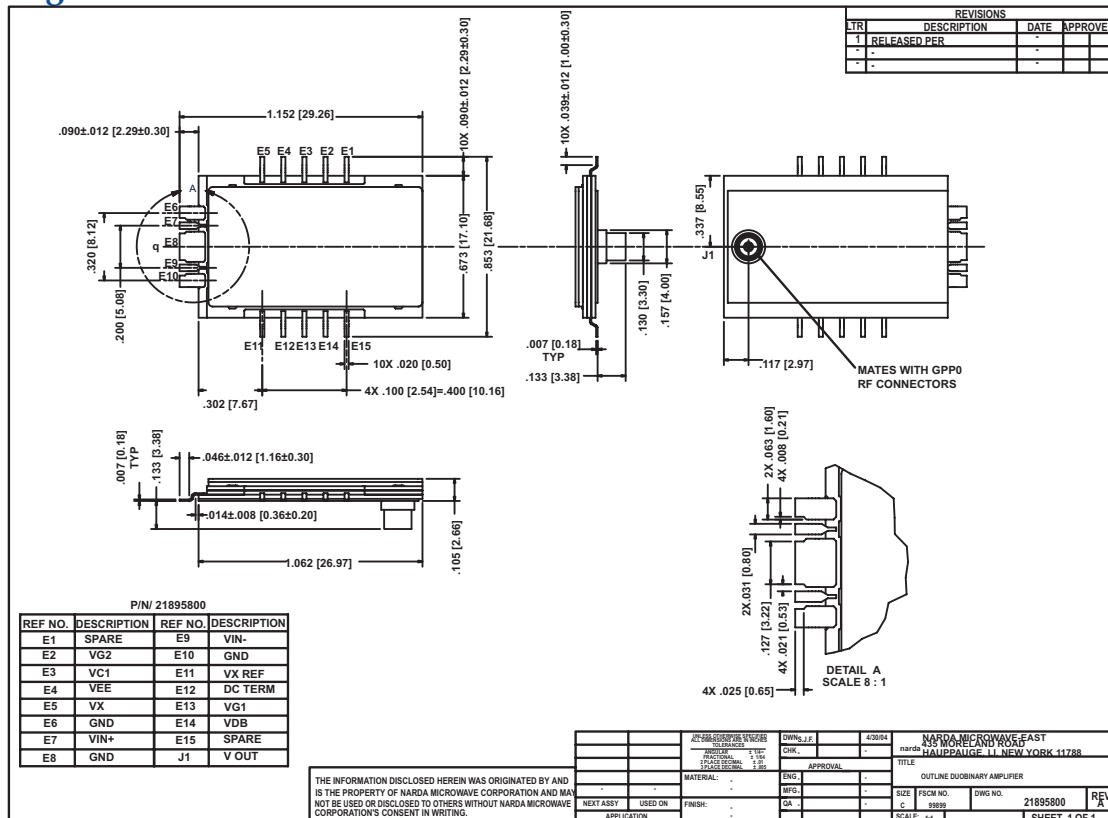
Model FO-DBD-10-00 OC192 Duobinary Driver Amplifier

Preliminary Specifications

PARAMETER	UNITS	MINIMUM	TYPICAL	MAXIMUM
Data Rate	Gbps	9.9		11.2
Low Frequency 3dB Roll-off	kHz			85
Output Amplitude (Note 1) Single Ended	Vp-p	10	10.5	
Output Amplitude Control Range	dB		6	
Input Voltage				
Single Ended Differential	Vpp	0.4		1
	Vpp	0.2		1
Input Return Loss	dB		10	
Output Return Loss	dB		10	
Rise/Fall Time 20%-80%	ps		20	
Jitter p-p	ps			10
Jitter RMS	ps		1.8	
Positive (+8V) Supply Current	mA		250	
Negative (-5.2V) Supply Current	mA		200	

Note 1. Lower peak output amplitude units available.

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.