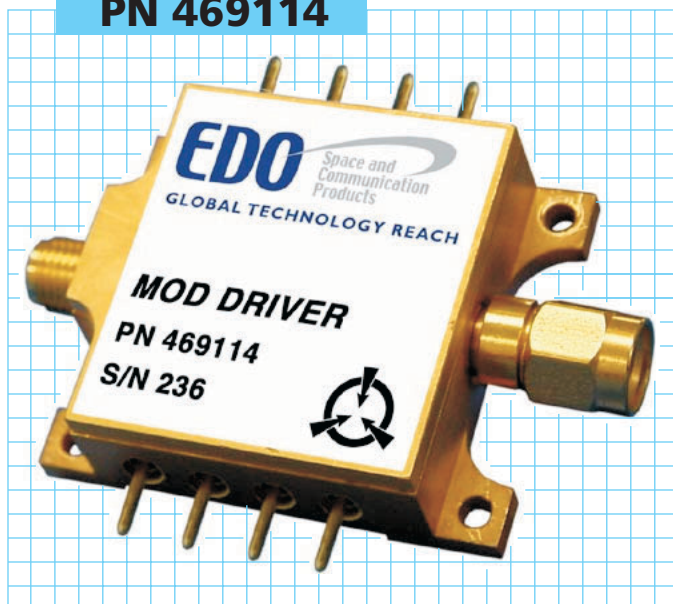




# Commercial Products

## Modulator Driver Amplifier

**PN 469114**



### FEATURES

- Data Rates in excess of 12 Gb/sec (NRZ)
- Variable output voltage
- Constant output voltage over temperature and input voltage variation
- Adjustable Eye crossing symmetry
- Disable Control
- Output Modulator bias tee

### APPLICATIONS

- OPTIMIZED FOR USE WITH OC192/STM64

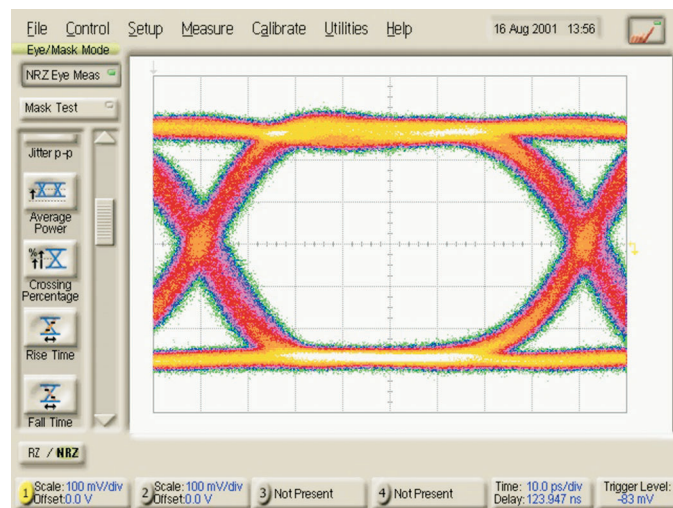
### TYPICAL PERFORMANCE

- Input Data Rates Up to 12.5 Gbit/sec
- Input Voltage 0.3-0.7 Vpp
- VSWR <2:1
- Coupling AC
- DC Power 9V @ 150 mA  
15V @ 100 mA  
-5V @ 20 mA

This broad bandwidth NRZ modulator driver amplifier is designed to operate at data rates in excess of 12 Gb/sec. It is intended to drive Lithium Niobate modulators at output voltages of up to 7 Vpp for input signals as low as 0.3 Vpp. The amplifier incorporates output voltage control and eye crossing symmetry adjustment.

The modulator driver utilizes state of the art Microwave Integrated Circuit Design and PHEMT device technology. Custom bias circuit design allows circuit operation down to <100 KHz.

*Typical Eye Diagram 12.5 Gb/sec*



- Output Voltage 4-8 Vpp
- Output Variation 0.1 dB/dB (0-60C)
- Rise Fall Times <27 psec Typ
- Eye opening >80%
- Eye Symmetry 50 ±5%
- Size 38.86 x 31.3 x 13.3
- Connectors SMA

5201-080A