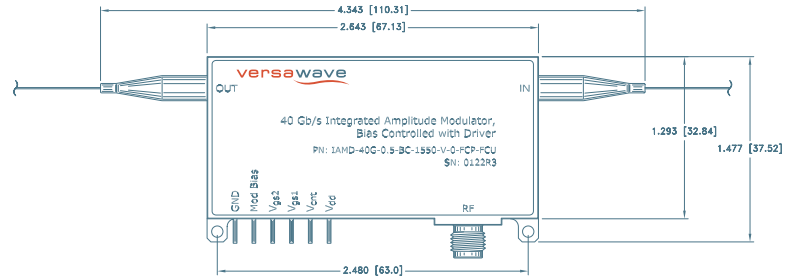
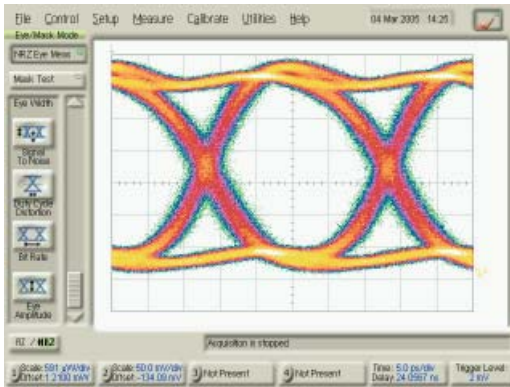


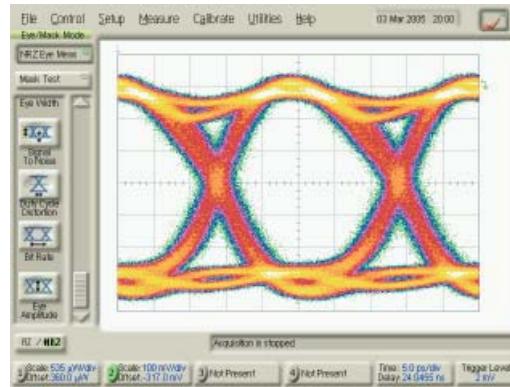
Versawave 40 Gb/s Integrated Amplitude Modulator Bias Controlled with Driver



INPUT ELECTRICAL EYE:



OUTPUT OPTICAL EYE:



FEATURES:

- Integrated RF amplifier
- Convenience of built-in bias controller
- Integrated PIN diode for optical power monitoring
- High extinction ratio
- Bit rates up to 44 Gb/s
- Low jitter ~1ps
- Low power consumption
- Compact size
- Cost effective solution

PRELIMINARY SPECIFICATIONS:

OPTICAL & ELECTRO-OPTIC PARAMETERS	MIN	TYPICAL	MAX
S21 Electro-Optic Bandwidth		30 GHz	
DC Extinction Ratio		25 dB	
RF Extinction Ratio		13 dB	
Jitter (rms)		1 ps	
Chirp Parameter	-0.1		+0.1
Wavelength Range	1530 nm		1570 nm
Optical Return Loss	30 dB		
Optical Insertion Loss		7 dB	
Input Optical Power			13 dBm
ELECTRICAL PARAMETERS	MIN	TYPICAL	MAX
PRBS Drive Voltage (40 Gb/s @ 25°C)	0.4 V		
Return Loss (<35 GHz)	10 dB		
Power Consumption		1.5 W	
ABSOLUTE MAX RATING	MIN	TYPICAL	MAX
Input Optical Power (Operating)			17 dBm (CW)
Input RF Power			10 dBm (NRZ)
Operating Temperature	0°C		70°C
Storage Temperature	-40°C		85°C

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