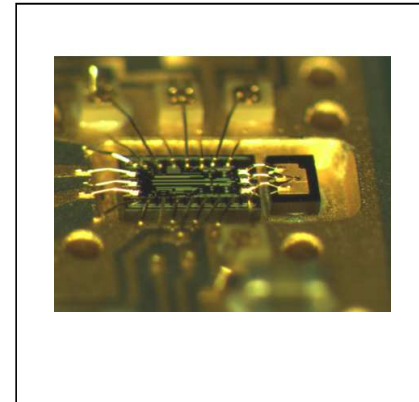


40 Gbit/s transmitter testboard subassembly (850 nm)

Product Code: T40-850TB



Sample image only. Actual product may vary.

Product Description

The T40-850 transmitter optical subassembly (TOSA) utilizes a vertical cavity surface emitting laser (VCSEL) and a driver IC integrated assembled onto a customized ceramic board. The device is designed for ultra-high speed data communication test measurements of up to 40 Gbit/s. The transmitter is available as a wire-bond version.

Features

- capable up to 40 Gbit/s data rate
- proprietary VCSEL and driver IC
- high frequency package
- ceramic testboard

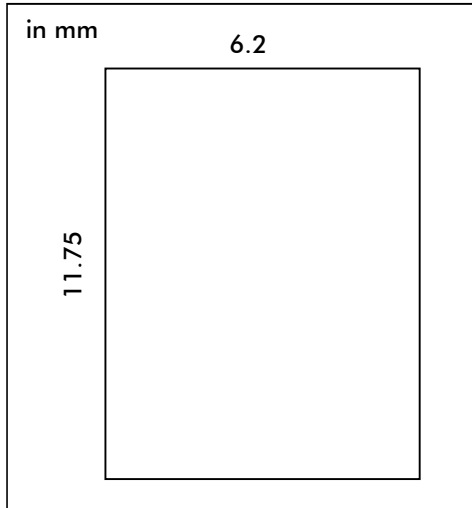
Applications

- Test of 40/100G short reach prototypes
- Fiber test application
- Research and development

Parameter	Typical	Notes
Emission Wavelength	850 nm	available from 835 – 865 nm
Power dissipation	< 200mW	
Differential L-I slope Efficiency	> 70%	
Peak Output Power	8 mW	
Threshold Current	< 1 mA	up to 100 °C
Rise Time (20% to 80%)	< 10 ps	

All product specifications and descriptions are subject to change without notice.

Dimensions



Pin #	Signal	Description
1	Vcc	supply voltage driver IC
2	Vcc	optional
3	Vcc	optional
4	Vxing	cross point adjustment
5	Vmod	output signal adjustment
6	Vbias	control voltage for VCSEL bias current
7	V _{RF}	RF input signal

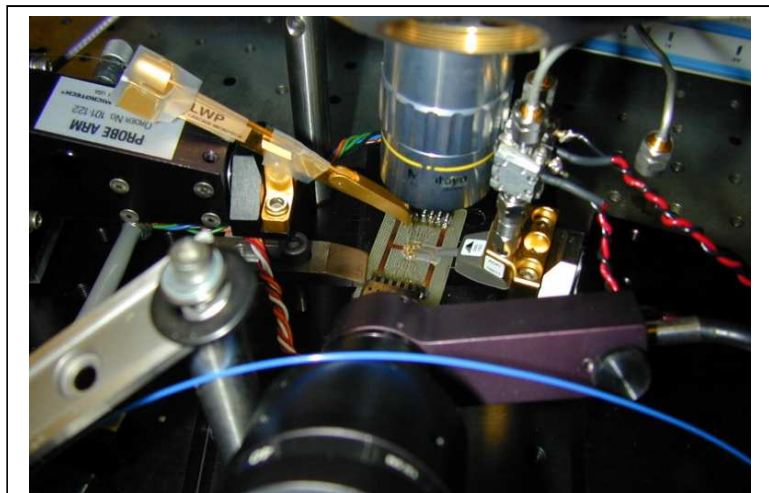
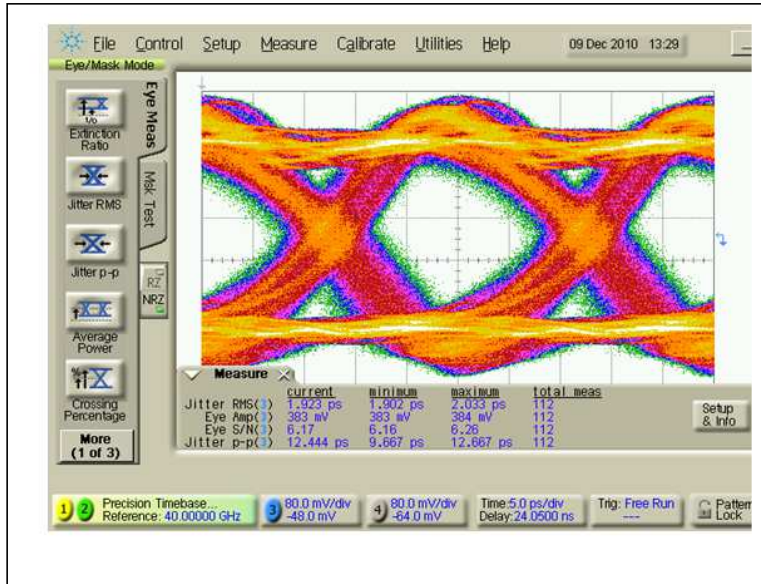
Product image



All product specifications and descriptions are subject to change without notice.

Please contact our sales department for additional information and to receive a quotation: sales@v-i-systems.com

Optical eye pattern at 40 Gbit/s



Test setup with RF microprobes and fiber alignment station.

Source: University of Georgia, USA, Georgia Tech, College of Engineering, School of Electrical and Computer Engineering, January 2012, IEEE 802 LAN/MAN Standards Committee



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