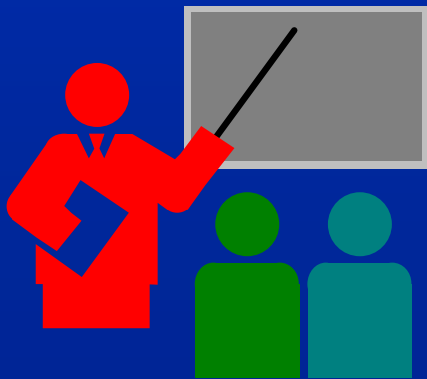




The World-Wide Authority in the Design & Manufacture of Microwave Test Fixtures

ICM Test Fixtures and Calibration Standards

Laser Transmit and Receive Modules



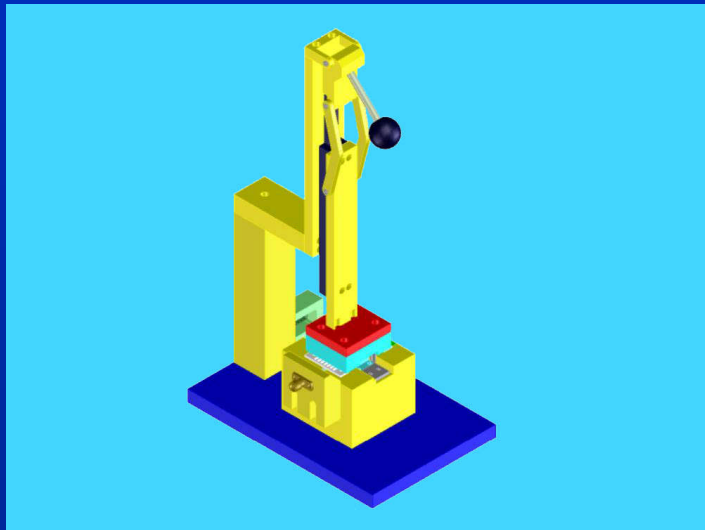
Laser Transmit and Receive Modules



Laser Transmit & Receive Module
Test Fixture

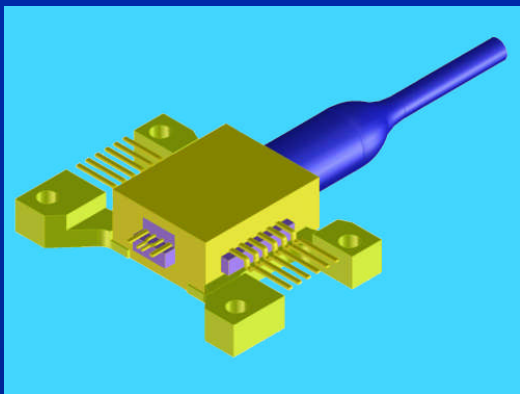
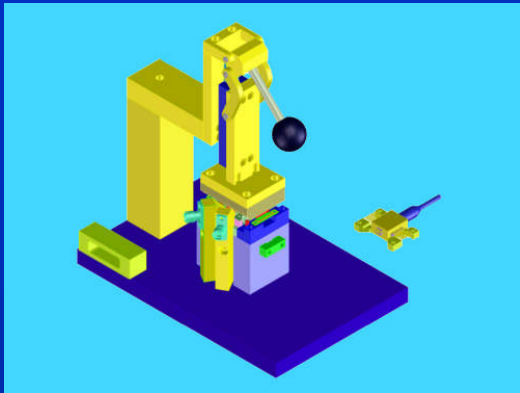
- ICM Laser Module Testing
 - Transmit modules have a RF-input and an Optical Fiber output
 - Receive modules have an Optical Fiber input and a RF-output
 - The RF-signal is either single ended or can be differential
 - Wide RF-bandwidth is required
 - Multiple DC-connections are required
 - Modules come in many different shapes
 - Fixture Calibration is often required

Single Ended LaserModule TestFixture



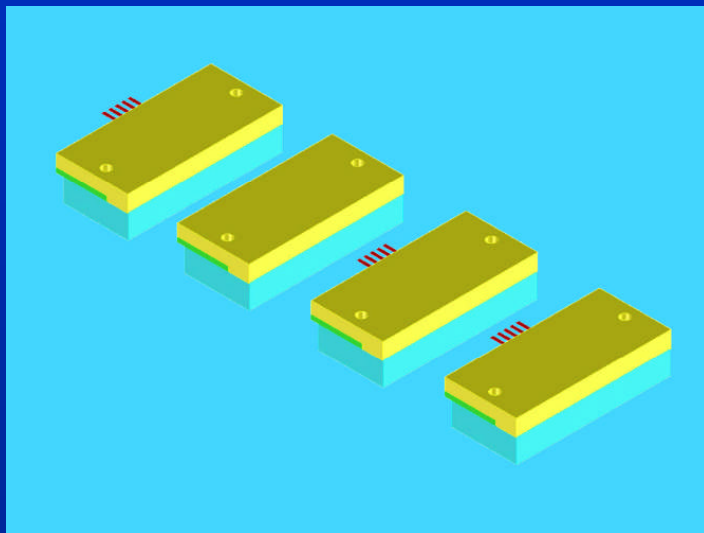
- Single ended RF-Input
 - Custom Fixture to accommodate module configuration
 - Single wideband RF-input
 - DC-Connector for easy interface
 - Spring loaded push pins for DUT leads
 - Adjustable DUT guides
 - Open/Closing mechanism with extra movement range available
 - Press style Fixture for easy DUT insertion

Differential Mode Device Test Fixture



- Matched Dual RF Test Fixture
 - Dual RF inputs have to be phase matched
 - Good isolation between RF required
 - Wide RF-Bandwidth required
 - Multiple DC inputs required
 - Precise positioning of DUT required
 - Spring loaded pushpins for the fragile DUT leads
 - Press Style Fixture for easy DUT insertion
 - Full Temperature versions available

Dropin Calibration Standards



TOSL-Calibration Standards


- In-Fixture Calibration Standards
 - Custom designed to match the Test fixture and DUT specifications
 - Build to drop into the fixture in place of the DUT
 - All Calibration Coefficients supplied with the Calibration Kit
 - THRU-Standard can be used to check the repeatability of the Test Fixture



The World-Wide Authority in the Design & Manufacture of Microwave Test Fixtures

- Where to get more information:
 - www.icmicrowave.com
 - Call your local representative
 - Call Inter-Continental Microwave
 - Tel: (480) 940-0740, Fax: (480) 961-4754
 - E-mail: sales@icmicrowave.com

Customer Requirements Form

Inter-Continental microwave  The World Wide Authority in the Design and Manufacture of Microwave Test Fixtures and Automatic Device Handling Systems.

Customer Requirements Form

Customer Information: _____ Date _____

Contact Name _____

Company _____

MS/Division _____

Address _____

Phone number () _____ Fax number () _____

E-mail _____

RF Requirements:

	Typical Example	Your Requirement
Type (sex) of RF connectors required	(3.5mm (f))	_____
Frequency range	(DC – 18 GHz)	_____
Insertion loss (each transition)	(0.5 dB)	_____
Return loss (each transition)	(20 dB)	_____
Isolation	(30 dB)	_____
Number of RF ports	(2)	_____
Calibration required (e.g., TRL, TOSL, TRM, THRU)	(THRU)	_____
Type of test equipment	(HP 8510B)	_____
Fixture repeatability (with thru line)	(± 0.1 dB)	_____
Maximum RF power	(4 watts)	_____
Other RF characteristics that my affect test fixture design		_____

DC Supply Requirements:

	Typical Example	Your Requirement
Number of DC ports	(6)	_____
Maximum voltage (each port)	(15 V)	_____
Maximum current (each port)	(15 A)	_____
Preferred connector type	(9 pin submin.)	_____
Other DC supply characteristics that my affect test fixture design		_____

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- Customer Requirement Form (CRF)
 - Collects all the information from the customer
 - Specifies what the customer application is
 - A checklist for data needed to make the best quote
 - Is a general form only and not all questions apply to every requirement
 - Requests additional drawings and information on DUT