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RIFOCS CORPORATION 672R/651R DISCONTINUITY TEST MODULES

The RIFOCS 672R Drop-Out Simulator Module and 651R Discontinuity Receiver Module comprise the industry's first off-the-shelf fiber optic circuit discontinuity test system per EIA/TIA-FOTP-32A. This RIFOCS Modular Solution provide a method for testing a broad variety of passive or active fiber optic components for susceptibility to discontinuities (signal dropout, transient output or transmittance fluctuations) during the application of an external stimulus, such as temperature, vibration or physical shock.

What Needs to be Tested?

- Singlemode and Multimode Cable Designs
- Passive Components (connectors, splices, splitters)
- Active Components (emitters, transceiver modules)
- Active Systems (transmitters, optical amplifiers)

Why Discontinuity Testing?

Traditionally, discontinuity testing has been specified for components and systems operating in dynamic environments, such as military, defense, aerospace, shipboard, and transportation. These systems are subject to wide temperature swings as well as high levels of vibration and shock during which they must operate without failure.

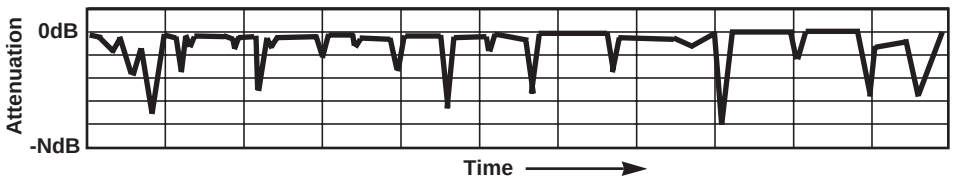
Today's super high data rates make communication system uptime and data reliability just as critical. Telecommunication and broadband systems now operate at multi-gigabit data rates. WDM and dense WDM telecommunications systems are approaching terabit rates, representing line capacities exceeding 40,000 simultaneous voice or data circuits. A microsecond dropout or transient can represent a tremendous amount of lost data or service interruption to a large number of data-driven business customers.

Today's telecommunications and broadband systems are also placing their transmission equipment, splice cabinets and interface boxes closer to roadways and other environments susceptible to high levels of constant and/or transient vibration and shock conditions. For example, consider an aerial splice closure subject to long periods of high winds and the potential impairment of performance. Also fiber-to-the curb systems are deploying PONs (passive optical nodes) immediately adjacent to roadways amidst the vibration of heavy traffic and passing trucks. Telephone system remote terminals and CATV head ends are also being deployed outside the protective environment of a central office or other facility.



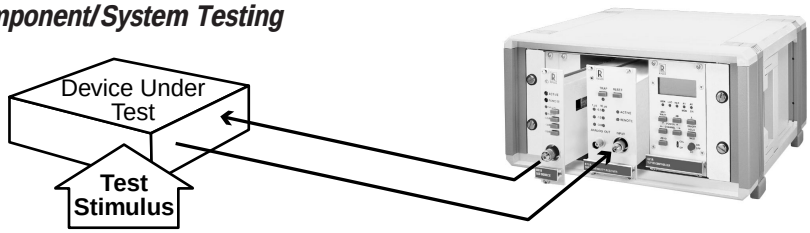
DESIGNED FOR GPIB SYSTEMS

What is an Optical Drop-Out?



A drop-out is characterized by both it's loss level and pulse width. The 672R allows the user to log discontinuity events exceeding a selected attenuator level (0.5, 1, or 3dB) and pulse width 1 or 10µs.

Component/System Testing



For testing at other wavelengths than 1300nm, served by the 651R, select from the RIFOCS 640/650R Series LED Sources and 660R Series Laser Sources. In these latter cases, the 651R is simply used to verify performance/calibrate the 672R as required by FOTP-32.

Features

- **Singlemode / Multimode Compatible**
- **Wide Spectral Range (850-1600nm)**
- **Input Range of -14 to -32dBm**
- **Selectable 1µs or 10µs periods**
- **Selectable Loss Thresholds of 0.5, 1 and 3dB**
- **RIFOCS FODL 2.0 Software Compatible**
- **RIFOCS 600R Modular System Compatible**

Applications

- **Telecommunication and CATV Systems**
- **Wireless, Satellite, Cellular Systems**
- **Aerospace and Avionics**
- **Missiles and Other Weapon Systems**
- **Shipboard and Submarine Systems**
- **Automotive, Train, and Other Ground Vehicles**
- **Seismic and Other Downhole Sensors**
- **Other Vibration Sensitive Equipment**

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Specifications

MODEL	672R	651R
Input Fiber	All fibers up to 100/140µm	N/A
Detector	1mm InGaAs	N/A
Calibration Wavelengths	1300 / 1550nm	N/A
Dynamic Range (high/low)	-14dBm to -32dBm	N/A
Discontinuity Duration Levels	1µs, 10µs	N/A
Discontinuity Amplitude Levels	-0.5dB, -1.0dB, -3.0dB	N/A
Measurement Modes	dBm, dB, WATT	N/A
Source Type	N/A	LED
Wavelength (MEAN)	N/A	1310nm (1290 - 1335nm)
Spectral Width (FWHM)	N/A	<70nm
Wavelength Stability	N/A	±2nm (+10°C to +30°C)
Power Stability (12 hours)	N/A	±0.20dB (after 15 min. warm-up) +20°C to +30°C at -20dBm
Internal Launch Fiber	N/A	125/140µm Step Index Fiber
Output Power	N/A	-17dBm
Module Width	12E, (takes up 2 RIFOCS slot positions)	6E, (takes up 1 RIFOCS slot position)
Warm-up Time	5 minutes	
Operating Environment	-5°C to +55°C, 0-95% RH (non-condensing)	
Storage Environment	-15°C to +70°C, 0-95% RH (non-condensing)	
Power Requirements	Interfaces to the RIFOCS 600 series bus: +5V/50mA max., + 12V/60mA max., -12V/60mA max.	
Optical Interface	UCI-PC (Universal Connector Interface), see table below.	

Specifications subject to change without notice

Ordering Information

A) Select Transient Test Module:

672R Transient Detector Module, UCI-PC
651R Transient Source/Calibrator Module, UCI-PC

AVAILABLE APRIL '97

B) Select Proper UCI-PC Adapter:

Connector Type	UCI-PC Adapter (for PC/SPC/UPC)
Biconic	ABI-25
DIN 47256	AD-234
D4	AD4-20
E2000	AE2-10
FC	APC-10
HMS-0 (DIAMOND 3.5mm)	AMS-00
HMS-10/A (SMA-2.5mm)	AMT-10
HMS-10/HP	AHP-10
MIL-T-29504/4 and /5	AML-38
SC	ASC-10
SMA 905/906	ASM-90
ST (Bayonet type)	ATS-16

C) Ordering Code Format: *(Model/Adapter)*

A minimum Optical Discontinuity test system consists of a Mainframe plus a 671R System Controller Module. For testing at 1300nm, the 651R 1300nm LED Drop-Out Simulator can also be used as a stabilized test source. For testing at other wavelengths with various emitter types (both LED and laser), select from the RIFOCS 640/650R Series LED Sources and 660R Series Laser Source Modules. For system configuration advice, please call RIFOCS or your local RIFOCS representative.

Example: A Discontinuity Test System for testing an SC-PC connector against a 1550nm laser source for WDM confidence testing:

QTY-1 672R/ASC-10 Discontinuity Receiver with SC-PC adapter
QTY-1 651R/ASC-10 Drop-Out Simulator Module with SC-PC Adapter
QTY-1 666R/ASC-10 1550nm Laser Source with SC-PC Adapter
QTY-1 671R Controller Module
QTY-1 698R Full Width Benchtop Mainframe

Represented by:

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