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RIFOCS CORPORATION

580 SERIES RETURN LOSS TEST SETS

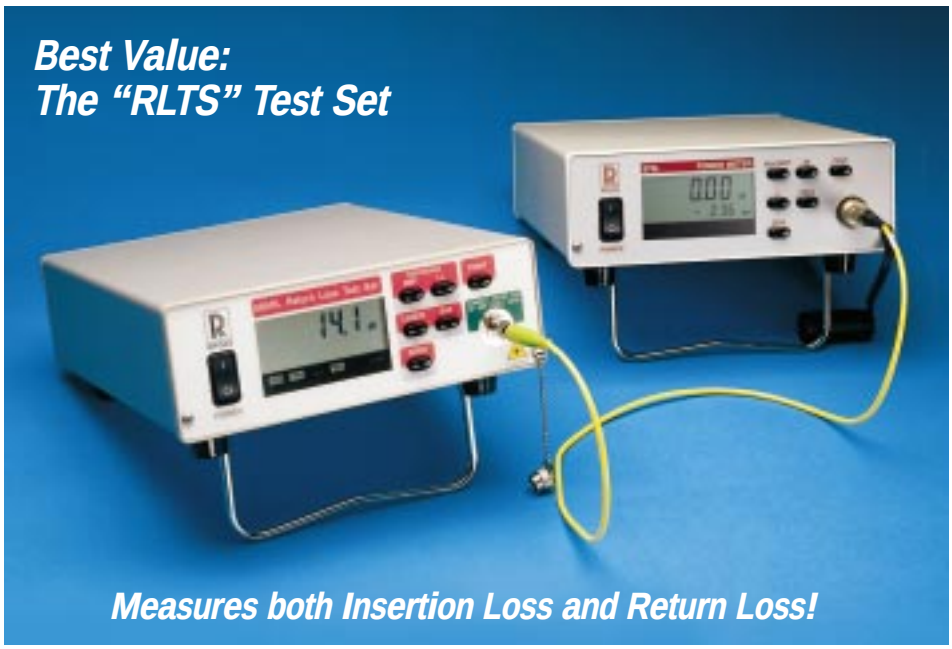


The 580RL Series Return Loss Test Sets (and 580RLTS Singlemode Test Stations) are designed as a user-friendly solution for insertion loss and return loss measurements. The 580RL Series is intended to facilitate testing in small to medium sized manufacturing and laboratory environments. Like the 570L Series, these instruments feature a unique PRINT label function of exceptional value to cable assembly houses, component manufacturers and Quality Control users. For these customers labeling and serialization for ID and traceability is a critical requirement.

The PRINT button provides the 580RL Series with the direct means to print these labels directly to an external RS232 serial or IBM-compatible parallel printer without the need for an external PC. The label formats can be easily configured by the customer in any user-defined format to include serial number, test result, date, time, company, part ID, bar code, etc. as defined in an easy-to-program label format. Up to 7 different label definitions can be stored simultaneously in the non-volatile memory.

Features:

- **Singlemode Compatible**
  NC/PC/SPC/UPC and 8^0 APC
- **Measurement Range to 70 dB**
- **Industry Standard Compatible**
  FOTP-34, 107, 171
- **Custom Label Printing,**
  serial/parallel printer support
- **RS232 Remote Control**
- **Single and Dual Wavelength Models**
- **585 RL** 1310nm Applications
- **586 RL** 1550nm Applications
- **588 RL** Dual Wavelength—
  1310/1550nm

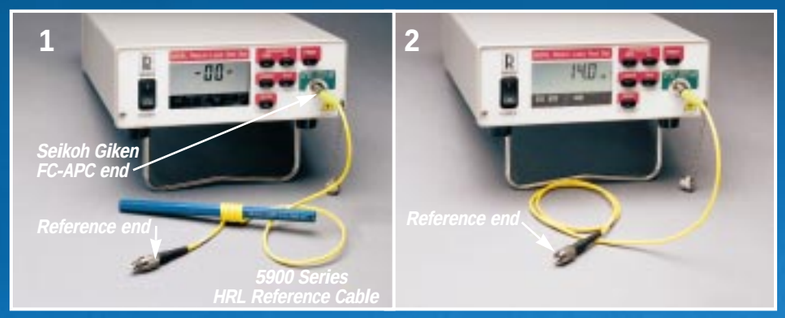


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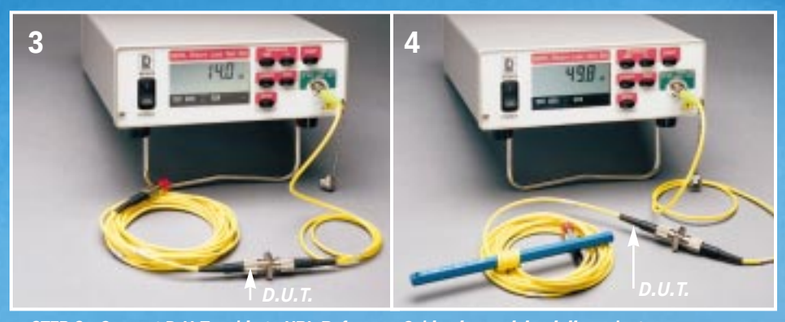
585/586/588 RL Test Set

How to Measure Return Loss



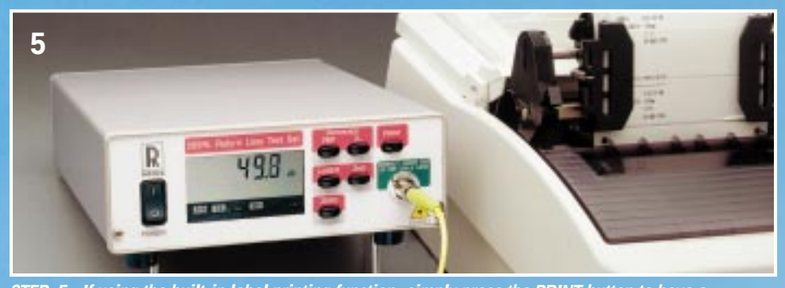
STEP 1. Zero 585RL by wrapping 5 times around the supplied mandrel pencil just in front of the Reference Connector on the 5900 Series HRL Reference Cable, then press the ZERO button. (hold the mandrel wrap).

STEP 2. Establish RL reference level by unwrapping mandrel and then press the REF button. The baseline reference is the fundamental 14dB Fresnel reflection from an unmated PC connector.



STEP 3. Connect D.U.T. cable to HRL Reference Cable via precision inline adapter.

STEP 4. Measure Return Loss by introducing mandrel wrap again just past the connector under test. The measured value appears on the LCD readout.



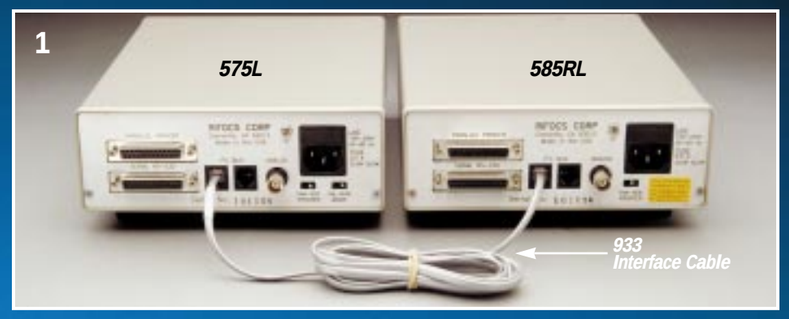
STEP 5. If using the built-in label printing function, simply press the PRINT button to have a serialized QC label printed on the designated (serial or parallel) label printer. The serial number will be incremented each time.



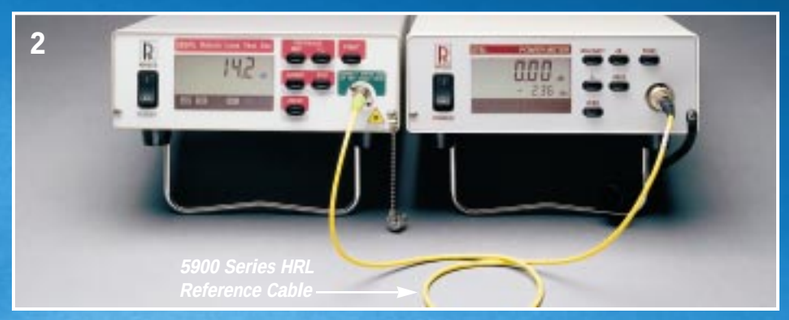
Precision, ultra-high return loss Seikoh Giken FC-APC serves as the Universal Interface for the RL test set, supported by a full range of 5900 Series HRL Reference Cables.

585/586/588 RLTS Test Station

How to Measure Insertion Loss



STEP 1. Interconnect the 585RL Meter and 575L Optical Power Meter using the 933 Interface Bus Cable via the I2C Bus Expansion Ports on the rear of both instruments.



STEP 2. Connect the Reference end of the HRL Cable to the 575L Optical Power Meter. Depress the [dB] button on the 575L to establish the 0dB reference level.



STEP 3. Connect the cable under test with the D.U.T. end coupled to the Reference end of the HRL Cable and the other end to the 575L OPM. Press the [I.L.] button on the 585RL to transfer the IL reading from the OPM to the RL Meter.

How to Define and Print Labels

Shown below is a sample definition for label #4 (entered as ASCII string over RS 232 serial port).

```
@4          (Define label #4)
RIFOCS CORP.
RL:    %P   (Print RL test data)
IL:    %I   (Print IL test data)
DATE:  %d   (Print in DD-MMM-YYYY format)
SN:    %S   (Print next sequential serial number)
~           (Indicates end of format string)
```

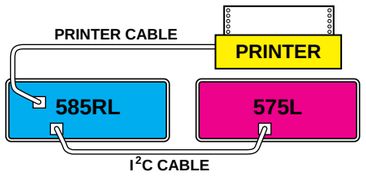
Sample print out

```
RIFOCS CORP. sample
RL:     45.0dB
IL:     0.15dB
DATE:   31-AUG-1994
SN:     101001

RIFOCS CORP. sample
RL:     48.1dB
IL:     0.09dB
DATE:   31-AUG-1994
SN:     101002
```

Print Labels and Reports

In Manufacturing, QC or Incoming Inspection, it is always necessary to log the measured data and label the tested components. The 580RL Series will generate the previously defined labels upon pressing the PRINT button. Selected printers can be either parallel or RS232 serial type for which the individual interface ports are provided on the back of the instrument. A toggle switch on the rear panel selects the print destination.



Up to 7 different label formats can be stored in the 580RL's nonvolatile memory. The label format can be customized on any text editor and then downloaded to the 580RL instrument via the RS232 serial interface. A simple formatting scheme allows the integration of the RL and IL readings, time date, wavelength, serial number and several other internal instrument parameters.

Provisions are set for non-printable ASCII characters as well as the printer-specific commands and escape sequences, including font control and format parameters. The choice of printers include inexpensive dot matrix printers (EPSON, IBM, etc.) to specialized bar code-capable label printers (such as Weber, Brady, Panduit, etc.).

Powerful Dual Wavelength Model

The 588RL offers a versatile dual wavelength capability for quick evaluation of fiber optic components at both wavelengths. Dual wavelength testing offers the benefit of satisfying all customers in a single test. In addition, the PRINT function also supports printing dual wavelength results on a single label.

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Specifications

MODEL	585RL	586RL	588RL
Wavelength	1310 ± 30nm	1550 ± 30nm	1310 ± 30nm, 1550 ± 30nm
Spectral Width		< 5mn	
Measurement Range		0 to 70dB	0 to 65dB
Absolute Accuracy	<±0.5dB: 0-55dB, <±1.0dB: 56dB-60dB, <±2.0dB: 61dB-65dB, <±3.0dB: 66dB and higher		
Calibration Traceability	U.S.N.I.S.T.		
Recalibration Period	12 Months (recommended)		
Laser Output Power	-1dBm ±1.0dB		
Laser Power Stability	0.05dB (2 hours at 22°C)		0.10dB (24 hours at 22°C)
Resolution	Log: 0.01dB		
Settling Time	2 Seconds		
Display Type	Custom tri-plexed liquid crystal display: 4 digit data field, simultaneous display of CAL wavelength		
Measurement Modes	dBm absolute, dB relative		
Optical Interface	Seikoh Giken FC-APC HRL Connector interface. Choice of reference cable and precision inline adapter included with instrument per specified connector option described below.		
RS-232 Interface	Conforms to RS-232C standard, 25 pin "D" connector female		
I²C Interface	Conforms to the Inter-Integrated (I²C)Circuit Bus specification		
Parallel Printer Interface	Logic level: 0-5V	Drives 1 TTL load	25 pin "D" connector female
Analog Output Interface	0 TO 3V (Amplifier output) Maximum analog output load > 5k ohm		
Line Power	100VAC to 250VAC, 50-60 Hz (automatic line switch)		
Warm Up Time	5 minutes		
Operating Environment	-5°C to 55°C (23° F to 131° F) Relative Humidity 0 to 95%, (Non-condensing)		
Storage Environment	-15°C to 70°C (5° F to 158° F) Relative Humidity 0 to 95%, (Non-condensing)		
Dimensions	8 x 19 x 29 cm (3.125 x 7.375 x 11.375 in.)		
Weight	2.15 kg (4.75 lbs.)		2.5 kg (5.51 lbs.)
Shipping Dimensions	15 x 28 x 38 cm (5.75 x 10.75 x 14.875 in.)		
Shipping Weight	3.40 kg (7.50 lbs.)		3.95 kg (8.71lbs.)

Specifications subject to change without notice.
0580-00 Rev.A

Ordering Information

Product Configuration

585RL: Return loss test set, 1310nm
586RL: Return loss test set, 1550nm
588RL: Return loss test set, 1310/1550nm

The 580 Series benchtop power meters are complemented by a number of HRL test connector configurations. Purchase of a 550B Series benchtop power meter including the necessary HRL reference cables and precision inline adapter, which must be specified at the time of order. With this information, create an ordering code with the following syntax:

QTY-{quantity} {power meter model number} / {HRL connector code}

For instance, a 585 benchtop power meter for evaluating ceramic FC-SPC and FC-APC (narrow key) connectors, would be ordered as follows:

QTY-1 585RL/2J

This system will include the 585RL, 592K HRL FC-UPC Reference Cable, 582J HRL FC-APC Reference Cable, MPC-10 FC-UPC precision inline adapter, and AF3A-2 FC-APC narrow key precision inline adapter. ***NOTE:*** Select option "2J" for universal ceramic applications where the user will splice a Reference Connector pigtail onto the FC-APC pigtail. The supplied FC-APC jumper can be cut in half to provide two reference pigtails for this pupose.

RIFOCS HRL TEST CONNECTOR TABLE

Connector type	Diamond code	Ceramic code
DIN-PC, DIN-SPC	1U	—
DIN-APC	16	—
FC-PC, FC-SPC	26	2K
FC-APC, narrow key	—	2J
FC-APC wide key	28	2W
ST-PC,ST-SPC	36	3K
SC-APC	61	6J
SC-PC, SC-SPC	66	6K
D4-PC, D4-SPC	—	89

Accessories:

930 Rack-mount adapter (for up to 2 Benchtop instruments)
933 Multimeter bus (12C) interface cable, 3m
935 D25 female to D25 male, RS232 interface cable
936 D25 female to D9 male, RS232 interface cable
59XX HRL Reference Cable Series. Consult price list for available connector options and ordering code.

RL/IL Test Station

The 580RL Series instrument along with a 575L Optical Power Meter form a complete Singlemode Test Station which can evaluate both insertion loss and return loss. The following RLTS Test Stations are offered at a discount versus if the same instruments (RL Meter and OPM) were purchased separately and include all necessary interface cables and adapters:

585RLTS: Return loss test station, 1310nm
586RLTS: Return loss test station, 1550nm
588RLTS: Return loss test station, 1310/1550nm

With a connector option, the corresponding SOC adapter will also be included for the 575L OPM as well as the 933 Bus Interface Cable to interconnect the 580RL Series instrument and 575L.

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