

Anritsu Advancing beyond

W1 Terminations

W1 Terminations: DC to 110 GHz



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Introduction

The W1 Connector™ male and female broadband terminations contain male and female non-hermetic connectors. Based on the 1.00 mm coaxial connector front side interface as specified by IEEE Std 287, the W1 Connector is well suited for high frequency applications ranging from components to systems and instrumentation.

Features

- Excellent RF Performance to 110 GHz
- 50 Ω Impedance
- Low VSWR
- Standard 1 mm Interface
- Accurate Testing Capability
- Broadband Load for Instrument and Device Under Test

Definitions

	All specifications and characteristics apply under the following conditions, unless otherwise stated:
Temperature Range	Over the 23 °C ± 5 °C temperature range.
Typical Performance	Typical specifications are not tested and are not warranted. They are generally representative of characteristic performance.
Uncertainty	A coverage factor of x1 is applied to the measurement uncertainties to facilitate comparison with other industry handheld analyzers.
Calibration Cycle	Calibration is within the recommended 12 month period (residual specifications also require calibration kit calibration cycle adherence.)
	All specifications subject to change without notice. For the most current data sheet, please visit the Anritsu web site: www.anritsu.com

W1 Precision Terminations

W1 precision metrology-grade terminations are used in measurement systems that need to achieve the smallest possible reflections. Designed in both male and female configurations, these terminations can be used as a precision load for test instruments or devices under test from DC to 110 GHz.



28W50, W1 Male Termination



28WF50, W1 Female Termination

W1 Precision Termination Specifications

28W50

Frequency Range	DC to 110 GHz	
Test Port Connector	W1(m)	
Input Impedance	50 Ω	
Return Loss	DC to 20 GHz	30 dB
	> 20 to 65 GHz	27 dB
	> 65 to 90 GHz	17 dB
	> 90 to 110 GHz	12 dB
Dimensions (Length x Diameter)	2.5 x 0.8 cm	

28WF50

Frequency Range	DC to 110 GHz	
Test Port Connector	W1(f)	
Input Impedance	50 Ω	
Return Loss	DC to 20 GHz	30 dB
	> 20 to 65 GHz	27 dB
	> 65 to 90 GHz	16 dB
	> 90 to 110 GHz	12 dB
Dimensions (Length x Diameter)	2.2 x 0.8 cm	

Regulatory Compliance

28W50, 28WF50 RoHS Directive: 2011/65/EU + Amendment 2015/863

Tools

The following tools for making proper W1 connections are available.



01-504, W1-6 mm Torque Wrench



01-505, W1-6 mm or 7 mm Open end Wrench



01-506, W1-7 mm Torque Wrench

Training at Anritsu

Anritsu has designed courses to help you stay up to date with technologies important to your job. For available training courses, visit: www.anritsu.com and search for training and education.



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