Anritsu Advancing beyond

Unleashing the Power of Connectivity

with Anritsu's DC to 110 GHz RF and Microwave Components (W Type)

Introduction

In the dynamic landscape of modern technology, where accuracy, performance, and adaptability are paramount, Anritsu stands at the forefront with its groundbreaking DC to 110 GHz RF and microwave components. These components redefine the boundaries of what's achievable in the realm of radio frequency, offering an expansive frequency range and unparalleled performance.

Markets Served

Telecommunications: Redefining the capabilities of next-generation communication networks. Ensure low latency and high data throughput in point-to-point communication systems.

Aerospace and Defense: Driving advancements in radar systems, electronic countermeasures, and satellite communication.

Research and Development: Ideal for laboratories and research institutions working on cutting-edge RF projects.

Signal Integrity: Enabling high-frequency signal transmission, accurate measurements, reliable system performance, and seamless integration in diverse industries and applications requiring precise signal handling and analysis.

Silicon Photonics: Enhance silicon photonics by enabling high-frequency signal modulation and control, crucial for efficient data transfer between optical and electronic domains, advancing next-generation communication systems and data center architectures.

Why Choose Anritsu's W1 (DC to 110 GHz) RF and Microwave Components?

1. Broadband performance from DC to 110 GHz
2. Anritsu has the most 110 GHz offerings
3. Traceability to METAS ensuring a known measurement uncertainty
4. Best in the industry environmental specifications – Tests are performed per MIL-STD-202G
   - Shock 100 G_n peak sawtooth, method 213, Condition B
   - Vibration – Sinewave/Random: 10 Hz to 2000 Hz, 11.6 G_{rms}, Power Spectral Density 0.1 G_{rms} 2 Hz, Method 204, 214
   - Salt Spray – 5% concentration for 48 hours
5. Hermicity and Compatibility with other connector types
6. RoHS Directive – 2011/65/EU & 2015/863

Specials – Anritsu also manufactures assemblies and components to meet specific customer requirements in both coaxial and waveguide structures.

W1-102M

W1-105M

W1-101F

W1 Connectors and Cables
Used in test and measurement equipment, compliance labs, opto-electronics, medical imaging and sensing, etc.

W1-101M

W1-102F

W1-103F

Fixed Attenuators ~1 dB Accuracy Guaranteed!
For applications in metrology and calibration laboratories where precise characterization is essential, the Gold Line models provide metrology grade performance. Each is provided with attenuation and SWR calibration data.

41W-3

41W-6

41W-10

Coaxial Terminations DC to 145 GHz
W1 adapters and terminations play crucial role in ensuring signal integrity, impedance matching, and system stability in various high-frequency applications, including test and measurement equipment, microwave radiometry, millimeter-wave communication systems.

28W50

28WF50

Power Dividers/Splitters
Three resistor design for comparison measurements and on Wafer characterization and measurements. Intermodulation Distortion (IMD). Two resistor design for ratio or leveled measurements. Power sensor calibration for metrology labs. Gain, compression, and isolation measurements.

W240A

W241A

Directional Coupler
MIL-STD-461A for electronic warfare and satellite applications. EMI/EMC measurements. Used in radar transceivers for precise power monitoring, calibration, and signal distribution, contributing to accurate object detection, collision avoidance, and target tracking functionalities.

MN25110A

Calibration Grade and Waveguide Adapters DC 10 125 GHz
The 33 series W1-W1 adapters are available in three connector configurations: Male-Male, Male-Female, and Female-Female. W1 adapters have an air dielectric interface and a center conductor that is supported by a low loss PPO® plastic bead.

33WW50A

33WFWF50A

Conclusion
Anritsu's 110 GHz components empower engineers and researchers to push the boundaries of what is possible. Whether it's in the automotive sector, where radar systems enhance safety and autonomy, or in aerospace, where communication systems enable seamless connectivity. Contact us today to learn more about our range of 110 GHz components and discover how we can partner with you to turn your ideas into reality.

For more information, please visit **www.anritsu.com**

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