

Unlocking Limitless Possibilities with DC up to 43.5 GHz (K Type)

Introduction

In the ever-evolving landscape of modern technology, the critical role of radio frequency (RF) and microwave components cannot be overstated. These components serve as the heartbeat of advanced communication systems, test and measurement equipment, and cutting-edge research, underpinning the very foundations of innovation.

Anritsu, a name in the realm of RF and microwave technology, is the leader in the design and production of precision microwave components.

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.

Manufacturing: Crucial for sectors like semiconductor fabrication, automotive production, and electronics assembly enabling efficient manufacturing processes, and ensuring product quality.

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.

Why Choose Anritsu's DC to 43.5 GHz RF and Microwave Components?

1. Excellent accuracy and performance up to 43.5 GHz
2. Traceability to NIST ensure a known measurement uncertainty and customer satisfaction
3. 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
4. Hermeticity and compatibility with other connector types
5. 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.



41KC Attenuator



K103F-R Connector



K250 Bias Tee

K Connectors™ and Cables

Anritsu K connectors provide frequency scalability to 43.5 GHz with **mode-free performance**, and are mechanically compatible and mate with SMA, WSMA, and 3.5 mm.



K102F-R



K103M-R



K104M-R

Adapters

A series of precision measurement adapters are available to adapt one connector type to another. Anritsu precision adapters typically have 6 to 12 dB better return loss than competitive adapters.



K230B



K224B



33KKF50C

Terminations

Anritsu air lines and terminations are unsurpassed for accuracy and impedance match. They also provide the only method of certifying the performance of SWR autotesters, bridges, and directional couplers.



K210



28KF50A

Attenuators

The 41K performance gold line 43K series silver line series attenuators are specifically designed for applications where accuracy is a basic requirement.



41KB-3



43KC-20

Power Dividers/Splitters

All Anritsu power dividers are 3-resistor symmetrical designs with excellent amplitude and phase tracking. Anritsu power splitters are 2-resistor designs, providing great isolation between RF ports.



K241C



K240C

Bias Tees

Anritsu features both standard and Kelvin bias tees depending on the precision of the application.



K251



K252

DC Blocks

Anritsu DC blocks are used to prevent DC signals from passing through and feature < 1.0 dB insertion loss.



K261

Calibration/Verification Kits

Anritsu offers calibration kits which contain all of the precision components and tools required to calibrate an Anritsu VNA in a connector style of your choice with .S1P data-based calibration files.



TOSLKF50A-43.5



TOSLK50A-43.5

Conclusion

Anritsu carries over 300 precision components. Join Anritsu on this exploration of DC to 43.5 GHz RF components, where limitless potential awaits in every gigahertz of frequency spectrum.

For more information, please visit www.anritsu.com



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