



Specialists in Attenuation and RF Switching

Passive RF Components for 5G Wireless Testing

The 5th generation of wireless mobile systems (5G) is being actively researched around the world by a multitude of companies. Its high data rates will enable it to be much more than just the next generation of mobile networks. It appears that 5G deployment will include frequency bands from sub-1 GHz to 6 GHz for mobile coverage and up to 50 GHz and beyond for the highest point to point transmission speeds.



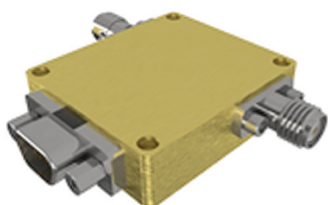
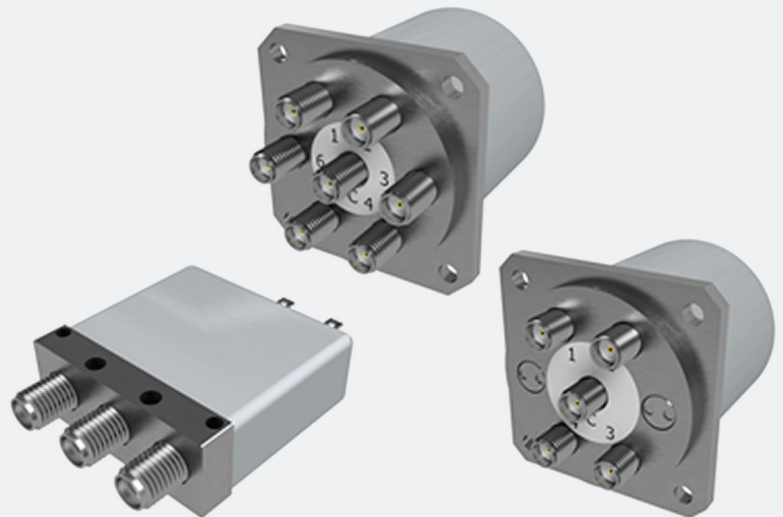
Fixed Attenuators and Terminations

Introducing a set of new low power 2.9mm fixed attenuators and termination that will be needed in every 5G lab technician's toolbox. The 50HFAH-XXX 2.9MM and 50HFAR-XXX 2.9MM are fixed attenuators that covers the frequency range DC to 40 GHz. They can handle 0.5W and 2W of RF Input power respectively. Both have 2.9mm male/female RF connectors. These attenuators are available with attenuation values: 3, 6, 10, 20, or 30dB. The 50T-274 2.9MM M is 0.5W, 50-Ohm termination. It also covers DC-40 GHz and has a maximum VSWR of 1.2:1 across the band.



RF Switches

The 50S-1772-XX (1P2T), 50S-1773+XX (1P4T), and 50S-1634+XX (1P6T) are JFW's newest line of Electromechanical RF switches. They boast an operating frequency from DC-40GHz, 50dB minimum isolation at 40 GHz, and a maximum insertion loss of 1dB. Their compact, self-terminating design makes them perfect for OEM and test applications where repeatability and bandwidth are critical. 2.9MM female connectors are standard and all of them are available with +12v, +15v, +24v, or +28v control.



Programmable Attenuator

40GHz Programmable Attenuator for 5G Radio Testing. 0-31 dB of attenuation on 1-dB steps from 100 MHz to 40 GHz make the new 50P-2072 from JFW Industries perfect for broadband testing of 5G wireless radios and networks.



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Automated RF Test Systems for 5G Wireless Testing

The complexity and high frequencies of new 5G networks will require a complete overhaul of wireless infrastructure components and systems, as well as the production facilities and test equipment that builds and supports that infrastructure. Finding reliable RF systems that are compatible with these new requirements will be key to the successful deployment of 5G.



Matrix Switch

JFW's 50MS-367 2.9MM is a 4 X 4 blocking matrix switch that operates DC-40 GHz. The RF connectors are 50 Ohm impedance 2.9mm female type located on the rear panel. The unit is remotely controlled via Ethernet or RS-232. This RF matrix switch utilizes our 3.X.X firmware command set for remote control. All unused input ports and unused output ports are self-terminating at 50 Ohms.

Rack-Mounted Ethernet Programmable Attenuators

The 50PA-1019-XX 2.9 MM is available with up to 16 attenuators. This new series of Ethernet-controlled RF attenuator systems was specifically developed for testing mm-wave and 5G radios in a laboratory environment. A 100 MHz to 40 GHz bandwidth and attenuation from 0-62dB x 1-dB are ideal for receiver testing and network emulation of fixed 5G and mobile 5G wireless network components. A simple Ethernet/RS-232 interface and standard 2.9 MM RF connectors make integration simple as well.



Bench-Mounted Ethernet Programmable Attenuators

The 50BA-024-62 2.9 MM is a single-channel bench-top attenuator system specifically developed for testing mm-wave and 5G radios in a laboratory environment. A 100 MHz to 40 GHz bandwidth and 0-62dB in 1-dB steps make it ideal for network emulation of fixed 5G and mobile 5G wireless networks. Other configurations and custom variations are also available.