



**FOR IMMEDIATE RELEASE**

## **Radiall Expands Its Non-Magnetic Connector Line with MCX Interface**

November 2011 - Radiall has released non-magnetic versions of its MCX line of miniature coaxial connectors. With a frequency range from DC to 6 GHz, the non-magnetic connectors' small size makes them well suited to newer, compact magnetic resonance imaging (MRI) equipment for hands, feet, or knees where space is at a premium. The non-magnetic materials mean the connectors do not distort the magnetic field produced by the coils which allows higher signal-to-noise ratios and higher image quality.

The connectors use low permittivity materials to achieve a magnetic susceptibility of  $10^{-5}$ , about three orders of magnitude lower than brass/nickel connectors ( $10^{-2}$ )—resulting in extremely low distortion of the magnetic fields.

The non-magnetic MCX line includes straight and right-angle board-mount receptacles and cable-mount plugs for RG-178 and RG-316 cable. Plug connectors are available with limited or full detents. For high-vibration environments characteristic of MRI machines, full-detent plugs maintain excellent electrical and mechanical performance. The connectors meet the vibration requirements of EIA-364-28 with 20 g at 2000 Hz in Highly Accelerated Aging Tests (equivalent to MIL-STD-202, Method 204, Condition D).

The non-magnetic MCX line joins Radiall's growing range of non-magnetic connectors for medical, space, and other applications that include MMCX, SMP, SMA, and SMB interfaces.

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### **About Radiall**

Radiall is a global manufacturer of leading-edge interconnect solutions. The company offers an extensive range of RF coaxial connectors and cable assemblies, coaxial switches, fiber optic and microwave components, multipin connectors and more. Radiall has sales offices and subsidiaries throughout the world, R&D in the U.S., Europe and China, along with manufacturing facilities strategically located in the U.S., Mexico, India, and China.

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