Radar Test System

Anritsu Company introduces the ME7220A, a Radar Test System (RTS) that utilizes low-cost innovative design techniques to create a price and performance breakthrough in testing mm-wave automotive radar. Featuring excellent accuracy and repeatability characteristics at 76-77 GHz, the ME7220A is an ideal solution for characterizing current and future generations of automotive radar, including Adaptive Cruise Control (ACC) and collision warming or avoidance radar.
The ME7220A is the first Radar Test System to combine target simulation and signal analysis capability in one instrument. Previously, a rack of instrumentation was required to achieve this testing capability. The ME7220A represents a significant improvement over a rack and stack configuration because it offers better accuracy, occupies significantly less space, and is easier to operate. Additionally, the ME7220A is much more affordable, as rack and stack alternatives may be as much as 6x more expensive.
Designed for use in a confined and controlled environment, the ME7220A RTS provides a simulated radar target response with an adjustable Radar Cross Section (RCS) and one of two set target ranges. The signal response can be Doppler-shifted to simulate the speed of a moving target. The ME7220A can simulate a 120-meter target moving at a speed of up to 250 km/h, with less than &#177 2 meter and &#177 0.2 km/h accuracy. The ME7220A can also change the size of the target by 50 dB. Additionally, the ME7220A can measure the power characteristics or Effective Isotropic Radiated Power (EIRP) of the transmitted signal, as well as its spectral characteristics.
Developed for use in R&D, as well as manufacturing and production, the ME7220A provides dramatic time and cost improvements in automotive radar testing compared to traditional methods that use actual targets or automobiles and a rack of equipment. The RTS can be used to conduct high-quality characterization of components, sensors, and systems, as well as during the installation of modules in automobiles.

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