



## A.H. Systems, Inc.

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## ECF-12K

### Equivalent Capacitance Fixture

100 Hz – 60 MHz

This Equivalent Capacitance Fixture is used for the verification and calibration of the active monopole antennas per the MIL-STD 461 standard.



Frequency Range: 100 Hz - 60 MHz

Impedance: 50  $\Omega$

Capacitor: 12 pF

Connector: BNC-Type, female

Mounting Connector: 1/4 - 20 Thread, female

### Features

- Equivalent Capacitance Substitution Method
- MIL-STD 461 Verification Testing
- ANSI C63.5:2017; CISPR 16-1-6:2017 Calibrations
- Rugged Construction
- Three Year Warranty

The ECF-12K is a 12-pF capacitance fixture used for system checks and calibration of the active monopole antennas with a 1/4-20 threaded connector. One of the functions of the matching network is to convert the high impedance input of the antenna element to the 50-ohm impedance of the measurement receiver. The 12-pF capacitor ensures that the correct source impedance is present during the check.

NOTE: MIL-STD 461 prohibits the use of other types of calibration networks or voltage dividing fixtures. Stray capacitance may exist in such fixtures. The ECF-12K is designed to work with the recent ANSI C63.5:2017 and CISPR 16-1-6:2017 standards and can be used to perform MIL-STD 461 antenna performance verification. As stated in MIL-STD 461G Appendix A: "The actual rod capacitance depends on its width, so the manufacturer's recommended value should be used if available."



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**ECSM Capacitance Measurement**

Model Number: ECF-12K

