



## A.H. Systems, Inc.

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## CPF-630

### Current Probe Fixture

20 Hz – 500 MHz

Calibration Fixture for  
Current Probes up to 500 MHz.



Frequency Range: 20 Hz – 500 MHz

Nominal impedance: 50 ohms

VSWR: <

Connector: N-Type, female

### Physical Dimensions

Dimensions (L x W x H): 7" x 10.25" x 2.46" (18cm x 26cm x 16cm)

Maximum Probe Diameter: 5.125" (13cm)

Minimum Probe Window: 0.625" (1.6cm)

Maximum Probe Width: 2.75" (7cm)

Weight: 9 lbs. (4kg)

### Features

- Broad Frequency Range of 20 Hz to 500 MHz
- Excellent VSWR, exceeds DO-160 requirements
- MIL-STD 461 CS114 calibration fixture
- Used with a wide variety of monitoring and injection probes

The A.H. Systems CPF-630 Current Probe Calibration Fixtures is a great way to keep your broadband Current Probes, and Injection Current Probes calibrated and up to date. Their rugged design ensures long life and faultless operation over the wide calibration frequency range of 20 Hz to 500 MHz.

Injection Probe calibration fixtures are a part of the test equipment required by most of the Bulk current Injection Test Procedure Specifications. The Calibration Fixture allows the user to quickly and easily calibrate the injection probe prior to performing the compliance testing. It exceeds DO-160, Section 20 VSWR fixture requirements for stand-alone injection probe calibration fixture.

The test fixture is composed of an electrically short section of trough transmission line. The short section permits the measurement of current in the center conductor of the line, while the current probe is clamped around the center conductor. The fixture's output terminal is terminated in a 50 ohm receiver, spectrum analyzer or RF voltmeter. A measurement of the voltage developed by this RF voltmeter permits the calculation of current flowing in the center conductor. The trough is large enough to permit the current probe to be clamped around the center conductor, with the outer conductor of the trough extending around the current probe's outer shield.



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Due to variable circuit impedance's or resonances in cables and cable looms, the calibration fixture is used to establish the forward power into the injection probe needed to develop the specified currents in the system under test.

### **Recommended Accessories**

- ICP-621 (Injection Current Probe)
- ICP-622 (Injection Current Probe)
- SAC-211 (3 meter N/N Cable, RG-214U)