

# Bulk Current Injection Probe Calibration Fixture Guide

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## Note Regarding Calibration Fixtures

Fischer Custom Communications, Inc. designs its calibration fixtures to match the physical and electrical characteristics of its specific bulk current injection probes to create a nominal 50 Ω transmission line through the fixture. This ensures that each bulk current injection probe is calibrated into a 50 Ω system end to end which minimizes the Voltage Standing Wave Ratio (VSWR) at the input to the fixture. This maximizes the calibration accuracy and minimizes the calibration measurement uncertainty.

The usable frequency range for calibrating a bulk current injection probe with its prescribed calibration fixtures is the intersection of their usable frequency ranges: the usable start frequency is the higher of either the probe's or fixture's usable start frequency and the stop frequency is the lower of either the probe's or fixture's usable stop frequency.

Below are two tables cross referencing FCC Calibration Fixtures to FCC Bulk Current Injection Probes and Bulk Current Injection Probes to Calibration Fixtures. FCC does not recognize nor authorize the calibration of its own bulk current injection probes using calibration fixtures other than those that are listed below.

## Bulk Current Injection Probe to Calibration Fixture

Calibration Fixture	Bulk Current Injection Probe
FCC-BCICF-1	F-120-1, F-120-2, F-120-3, F-120-3B, F-120-6, F-120-6A, F-120-9, F-120-9B, F-130A, F-130-1, F-130-1A, F-130A-1, F-100701-1008-1, F-100903-1008-1, F-100602-1008-1
FCC-BCICF-2	F-140, F-140A-1, F-145
FCC-BCICF-3	F-120-5, F-120-7A
FCC-BCICF-4	F-120-3A, F-120-3A-1, F-120-4, F-120-8, F-120-9A, F-130-2, F-100524-1008-1, F-110128-1008-1
FCC-BCICF-130	F-130
FCC-BCICF-130-3	F-130-3
FCC-BCICF-150	F-150
FCC-BCICF-150-1	F-150-1
F-070601-1008-2	F-070601-1008-1
F-080409-1008-2	F-080409-1008-1
F-080728-1008-2	F-080728-1008-1
F-080915-1008-2	F-080915-1008-1
F-040128-1008-2	F-040128-1008-1



F-061210-1008-3	F-061210-1008-1
F-070914-1008-3	F-070914-1008-1
F-070921-1008-3	F-070921-1008-1
F-090730-1008-2	F-090730-1008-1

## Calibration Fixture to Bulk Current Injection Probe

Bulk Current Injection Probe	Calibration Fixture
F-040128-1008-1	F-040128-1008-2
F-061210-1008-1	F-061210-1008-3
F-070601-1008-1	F-070601-1008-2
F-070914-1008-1	F-070914-1008-3
F-070921-1008-1	F-070921-1008-3
F-080409-1008-1	F-080409-1008-2
F-080728-1008-1	F-080728-1008-2
F-080915-1008-1	F-080915-1008-2
F-090730-1008-1	F-090730-1008-2
F-100524-1008-1	FCC-BCICF-4
F-100602-1008-1	FCC-BCICF-1
F-100701-1008-1	FCC-BCICF-1
F-100903-1008-1	FCC-BCICF-1
F-110128-1008-1	FCC-BCICF-4
F-120-1	FCC-BCICF-1
F-120-2	FCC-BCICF-1
F-120-3	FCC-BCICF-1
F-120-3A	FCC-BCICF-4
F-120-3A-1	FCC-BCICF-4
F-120-3B	FCC-BCICF-1
F-120-4	FCC-BCICF-4

Bulk Current Injection Probe	Calibration Fixture
F-120-5	FCC-BCICF-3
F-120-6	FCC-BCICF-1
F-120-6A	FCC-BCICF-1
F-120-7A	FCC-BCICF-3
F-120-8	FCC-BCICF-4
F-120-9	FCC-BCICF-1
F-120-9A	FCC-BCICF-4
F-120-9B	FCC-BCICF-1
F-130	FCC-BCICF-130
F-130-1	FCC-BCICF-1
F-130-1A	FCC-BCICF-1
F-130-2	FCC-BCICF-4
F-130-3	FCC-BCICF-130-3
F-130A	FCC-BCICF-1
F-130A-1	FCC-BCICF-1
F-140	FCC-BCICF-2
F-140A-1	FCC-BCICF-2
F-145	FCC-BCICF-2
F-150	FCC-BCICF-150
F-150-1	FCC-BCICF-150-1

