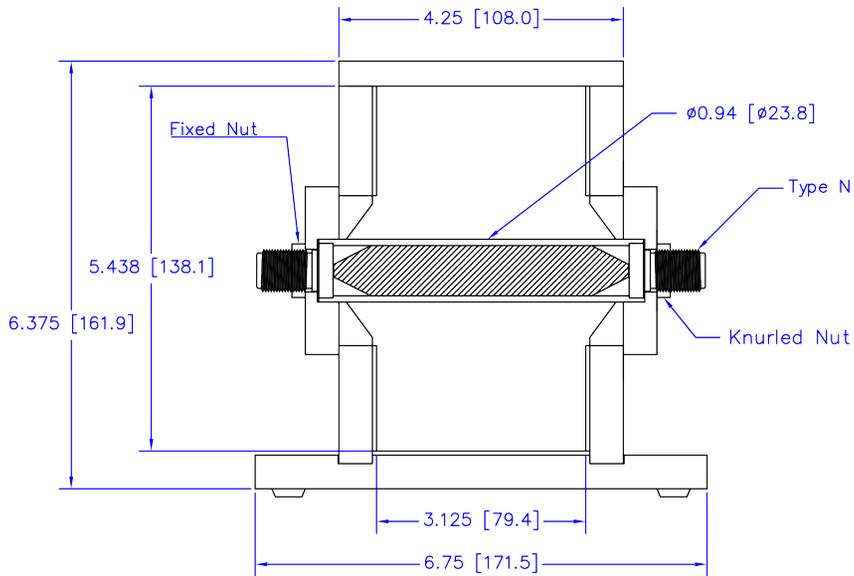


Dimensions: inches [mm]

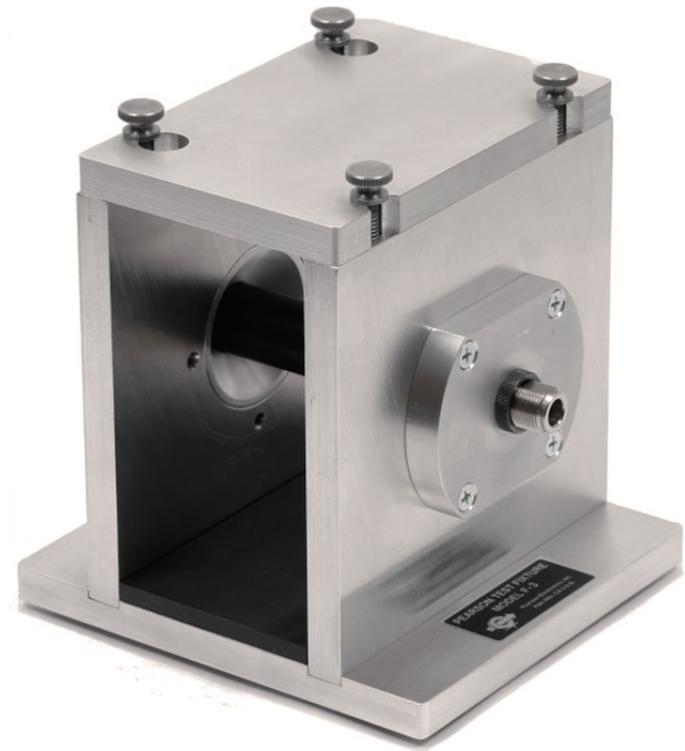


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F-3 CALIBRATION FIXTURE OPERATING MANUAL



Description. The Pearson F-3 fixture is used to calibrate current probes in accordance with MIL-STD-461 G for use in electromagnetic compatibility measurements.

The base- plate, end plates, lid and center conductor form a quasi-coaxial region where the probes may be placed. RF power passes into and out of the fixture via type N connectors.

Features. The F-3 follows the design example of MIL-STD-461. It is sized for use with the Pearson Electronics bulk current injection clamp model 8700i and pickup probe model 8705C. Both probes will fit in the fixture simultaneously, allowing calibration of the full system.

The lid of the F-3 is secured with thumb screws and may easily be removed by loosening these screws. This allows clamp-on probes to be placed in the fixture.

Fixed-aperture probes can also be inserted by removing the center conductor. A knurled nut holds the center conductor in place. Alternatively, the removable flange may be screwed to the side-plate if only clamp-on probes will be calibrated.



An accessory lid is available with a hole to allow access to the connector on rectangular Pearson clamp-on CT's.

The F-3 is used to calibrate the probes used for conducted susceptibility tests CS114, CS115, and CS116 as well as DO160 tests, and conducted emissions tests.

Voltage Standing Wave Ratio:



Typical return loss and VSWR for empty F-3 fixture



Typical return loss and VSWR for F-3 fixture with 8700i injection clamp