Applications

- Shielded effectiveness comparisons
- Radiated field predictions
- Localised immunity tests on cables and components
- Diagnose poor bonding

A diagnostic “tool kit” for use in both electrical and mechanical environments featuring 3 hand held probes (two magnetic, one electric) covering the frequency range 9kHz - 1GHz together with a 30dB pre-amplifier, power adaptor and check jig. When used in conjunction with a spectrum analyser or measuring receiver, the probes will readily locate and qualify sources of EMI (electromagnetic interference).

The two magnetic probes incorporate a high degree of rejection of both stray and direct electric fields - a frequent cause of measurement error - providing far greater repeatability than with conventional loop field probes. The electric probe with built-in pre-amplifier is powered by the CPS 9753 power supply unit (supplied) via the CPS 9752 power adaptor.

### Near Field Probe Set

**Applications**

- Locate emission “hot-spots”
- Check on mechanical screening performance
- Isolate faulty components

**Applications**

- Shielded effectiveness comparisons
- Radiated field predictions
- Localised immunity tests on cables and components
- Diagnose poor bonding

**Technical Specifications**

- **MFP 9150**
  - Magnetic Field Probe
  - Specified frequency range: 9kHz - 30MHz
  - Connector: 50Ω SMA Female
  - Max. RF power input: 0.5 Watt
  - Size (Incl. RF connector): 256 x 38 x 18mm
  - Operating temperature: 0 - 45°C

- **MFP 9151**
  - Magnetic Field Probe
  - Specified frequency range: 30MHz - 1GHz
  - Connector: 50Ω SMA Female
  - Max. RF power input: 0.25 Watt
  - Size (Incl. RF connector): 256 x 38 x 18mm
  - Operating temperature: 0 - 45°C

- **EFP 9152**
  - Electric Field Probe
  - Frequency range: 9kHz - 1GHz
  - Antenna factor: 67dB[mV/m] / [mV]
  - Connector: SMA Female
  - Size (Incl. RF connector): 267 x 38 x 18mm

- **PCJ 9251**
  - Check Jig
  - Connector: N (Male)
  - Impedance: 50Ω
  - Max. RF power input: +20dBm

- **CPA 9231A**
  - Pre-amplifier
  - Frequency range: 9kHz - 2GHz
  - Noise figure: < 4dB
  - Input connector: N (Female)
  - Output connector: N (Male)
  - Gain: 30dB + 2dB at 1GHz
  - 18dB at 2GHz

- **CPS 9752**
  - Power Adaptor
  - Power requirements: 15V ± 10% DC or 10V ± 0.1V DC at 100mA

**Typical Conversion Factor**

**MFP 9150 and MFP 9151**

![Typical Conversion Factor](image)