

Near Field Probe Set

NFPS1

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

Applications

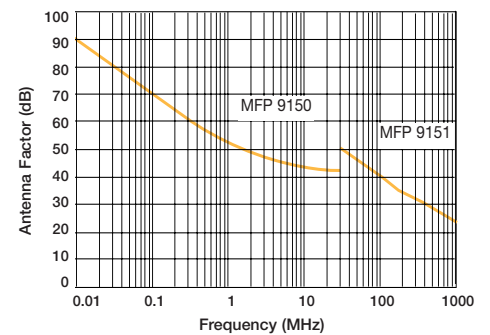
- Shielded effectiveness comparisons
- Radiated field predictions
- Localised immunity tests on cables and components
- Diagnose poor bonding

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.



**Typical Conversion Factor
MFP 9150 and MFP 9151**



Technical Specifications

NFPS1

MFP 9150	Magnetic Field Probe	CPA 9231A	Pre-amplifier
Specified frequency range	9kHz - 30MHz	Frequency range	9kHz - 2GHz
Connector	50Ω SMA Female	Noise figure	≤ 4dB
Max. RF power input	0.5 Watt	Input connector	N (Female)
Size (Incl. RF connector)	256 x 38 x 18mm	Output connector	N (Male)
Operating temperature	0 - 45°C	Gain	30dB ± 2dB at 1GHz 18dB at 2GHz
MFP 9151	Magnetic Field Probe	Input/ output impedance	50Ω
Specified frequency range	30MHz - 1GHz	Input VSWR	< 2:1
Connector	50Ω SMA Female	Power requirements (With probe)	15V ± 10% DC or 10V ± 0.1V DC at 100mA
Max. RF power input	0.25 Watt	CPS 9752	Power Adaptor
Size (Incl. RF connector)	256 x 38 x 18mm	Power requirements (With probe)	15V ± 1.5V dc or 10V ± 0.1V dc
Operating temperature	0 - 45°C	RF input connector	BNC (Female)
EFP 9152	Electric Field Probe	RF output connector	N (Male)
Frequency range (±3dB)	9kHz - 1GHz	Size (Incl. RF connectors)	103 x 26 x 27mm
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		