

RF Current Clamps

Models RF9123/ RF9145

Clamp-on Current Probes for RF measurements

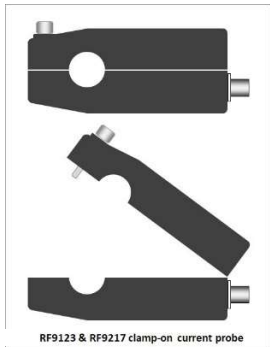
These probes are designed to measure RF current on cables up to 32mm diameter. The clamp-on feature makes them easy and quick to use. Ideal for EMC compliance measurements as specified in CISPR and EN standards.

A current probe is used as a “pick-up” device for measuring RF current in single conductors or cable bundles when connected to the 50 Ω input of a radio frequency interference measuring receiver or spectrum analyser.

Direct connection to the conductor carrying EMI current is not necessary, since the probe may be opened for insertion of the conductor into the window of the toroid and then closed again to form a toroidal transformer with the conductor acting as a one-turn primary.

A correction factor graph is provided to convert measured μV to EMI μAs . When the EMI current is measured in dB above 1 μV as indicated on a conventional EMI meter, the correction factor will convert the measurement to dB above 1 μA . The correction factor is the inverse of the transfer impedance, Z_t . Each probe is shipped with a graph of the correction factor versus frequency, keyed to the serial number on the probe.

Specifications @ 25°C

<u>Model</u>		9123	9145
<u>Electrical</u>			
Bore size		32mm	32mm
Frequency range		10KHz – 500MHz	10KHz – 150MHz
Nominal Z_t (ohm)		1 - 5	5
Max primary current (A)	DC – 60Hz	200	350
	400Hz	200	350
	RF (CW)	40	42
	Pulse	60	100
<u>Mechanical</u>			
Dimensions			115 x 73 x 38mm (excluding connector)
RF Connectors			Type-N
<u>Environmental</u>			
Temperature			0° C to +50° C
Operating Humidity			95% Non-condensing



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