

Current Injection Probe 10kHz - 400MHz

CIP 9136

- Replacement for CIP36A & 37A as specified in Defence Standard 59-41
- High power handling (up to 1kW)
- Wide frequency range 10kHz - 400MHz
- Ideal for automotive BCI testing

The CIP 9136 probe has been manufactured to drawings and specifications laid down by QinetiQ. It meets the requirements for HIRF testing where conventional ferrite core material cannot handle the higher powers required (up to 1000W), without changing characteristics when heated. Whilst having been initially designed to meet the specific requirements of Aircraft Testing from 10kHz to 50MHz, the CIP 9136's unique non-ferrite core allows wide band performance from 10kHz - 400MHz, and above.

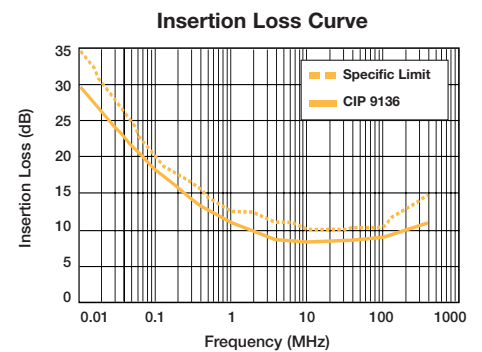
The new CIP 9136 core material is highly efficient and thermally rugged, thus allowing very high injected levels to be achieved with lower RF input powers. The core material can withstand far higher powers than conventional ferrite

(up to 1000W), which can change characteristics if overheated.

The probe material meets the following standards: DO-160C and HIRF users guide ED 14C SAE and Euro CAE. The probe performance can be measured using Calibration Jig PCJ 9201.



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UKAS Calibration option

Technical Specifications		CIP 9136	
Frequency range	10kHz - 400MHz	Max. time for continuous	
Window diameter	43mm	Rating at 1000W	10 Minutes
Outside diameter	113mm	Turns ratio	1:1
Width	61mm	Max core temperature	90°C
Input connector	Type N	Primary inductance @ 1MHz	4.7µH typical
Max. input power (1 - 1000MHz)	1000W	Self resonant frequency	12MHz typical
		Impedance at resonance	100Ω typical

Calibration Jigs

The calibration jigs are designed for insertion loss measurements to the following standards:-

- UK Defence Std 59 - 41
- MIL-STD 461E RTCA

