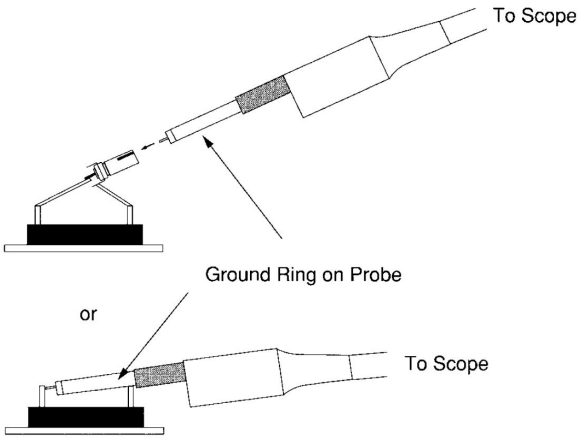
Measurement Instructions

Measurement of Ripple and Noise



Ripple and Noise will be measured with a scope and 20 MHz bandwith. Since most scopes are able to track a far higher frequency it is necessary to manually reduce the bandwidth internal to the oscilloscope. Bandwidth-limiting at the oscilloscope is preferable to a hardware-based limitation.

The ground lead should be as short as possible (max. 10mm). The scope probe should be a 1:1 probe and > 20 MHz bandwith, so that all significant harmonics of the ripple spike are included.

It is very important, that you measure the Ripple and Noise directly on the output pins or connector contacts of the unit under test (see Fig. 1). Further, this measurement is made at Vin nom and full load using a pure resistive load.