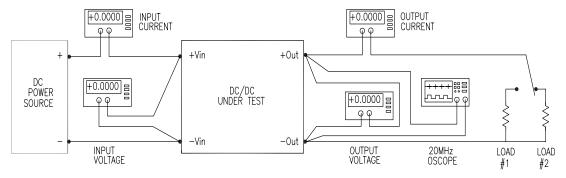
General Test Set-Up

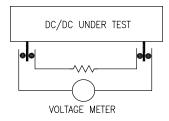
Figure 1 shows a general equipment set-up for testing DC/DC converters. Except where otherwise required, the following conditions should be applied.

- · Nominal DC input voltage
- +25° C ambient temperatue
- · Full rated output load



Measurements

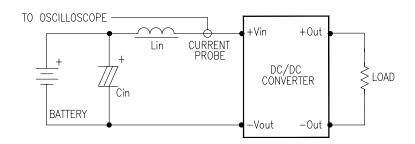
All connections to the converters should be made with great care, expecially to the output pins. Standard four-terminal or Kelvin, measurement practices should always be ovserved in making DC/DC converters measurements. Figure 2 shows a voltage measurement being made from the output terminals of a DC/DC converter by means of separate contacts that do not carry load current. If contacts carrying load current are used for measurement, an erroneous reading of many millivolts can be resulted.



Input Reflected-Ripple Current Test Setup

Input reflected-ripple current is measured with a inductor Lin (4.7 μ H) and Cin (220 μ F, ESR < 1.0 Ω at 100 KHz) to simulate source impedance.

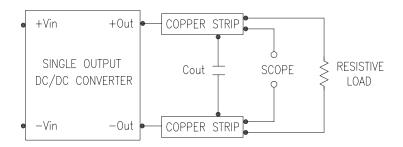
Capacitor Cin, offsets possible battery impedance. Current ripple is measured at the input terminals of the module, measurement bandwidth is 0-500 KHz.

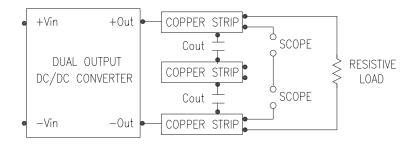




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Use a Cout 0.47 μ F ceramic capacitor. Scope measurement should be made by using a BNC socket, measurement bandwidth is 0-20 MHz. Position the load between 2" and 2.5" from the DC/DC converter.







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