

iQL Series Application Note

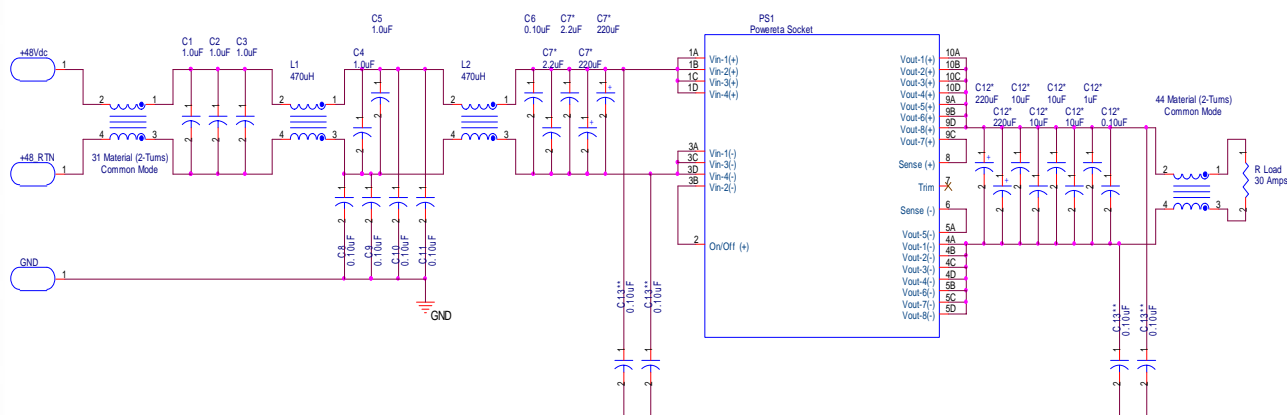


EMI Filter

CISPR B

Conducted Emission

(Test Setup and Recommended Filter)



***** NOTE *****

- * - Capacitor is required per Datasheet
- ** - Capacitor is required for EMI

EMC Considerations:

TDK – Lambda Americas power modules are designed for use in a wide variety of systems and applications. With the help of external EMI filters and careful layout, it is possible to meet CISPR 22 class A or B requirement. For assistance with designing for EMC compliance, please contact TDK – Lambda Americas Technical Support.

Input Impedance:

The source impedance of the power feeding the DC/DC converter module will interact with the DC/DC converter. To minimize the interaction, one or more 220uF to 470uF/100V input electrolytic capacitors should be present if the source inductance is greater than 4uH.

Notes:

UUT:

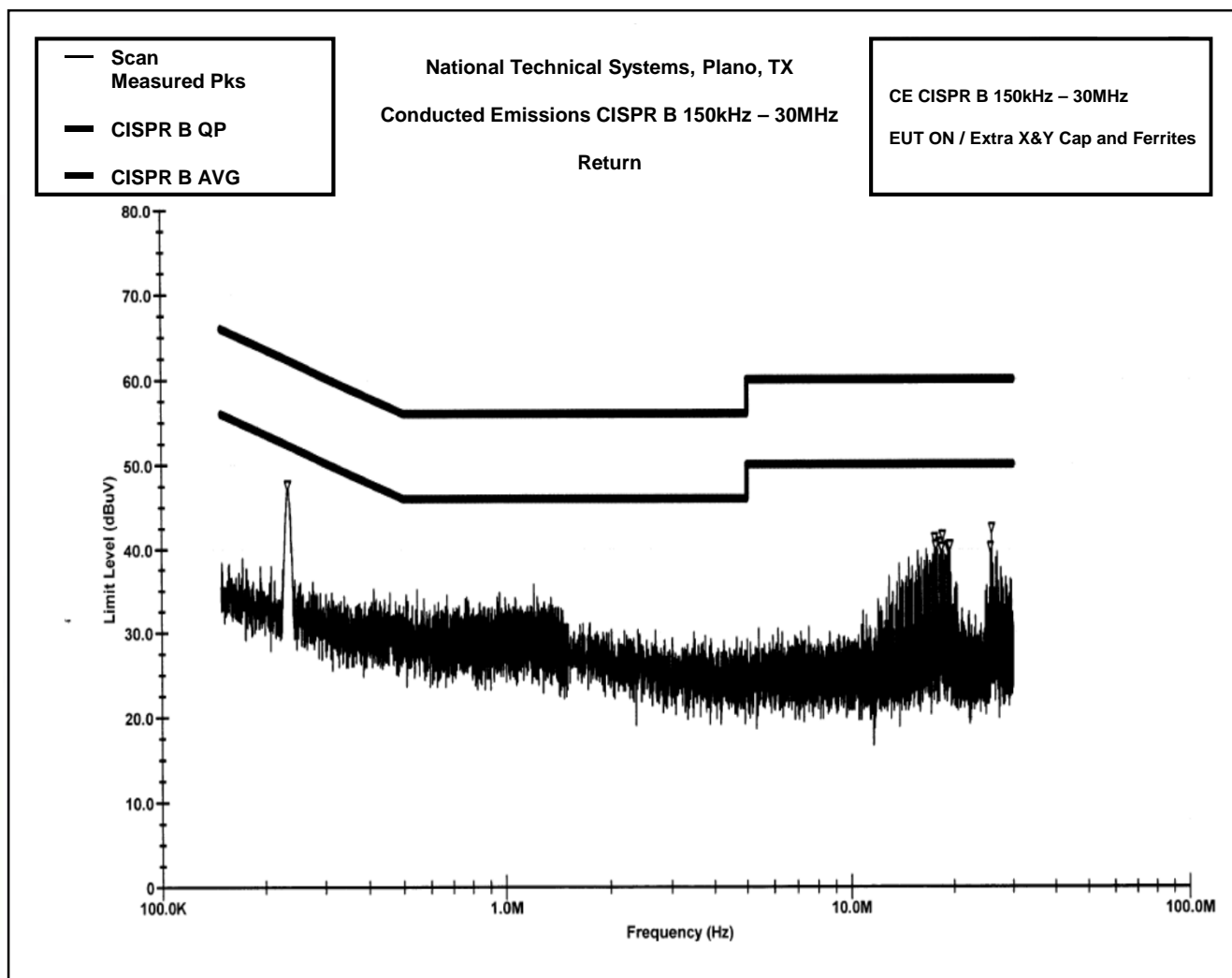
- iQG48033A120V
- V_{in} : 48V
- I_{out} : 30A resistive load

The same input circuitry is used for the iQG and iQL series; therefore, the iQG recommended EMI filter is also recommended for the iQL series.

EMI Filter

CISPR B - Conducted Emission

(Results from above Set-up)



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