

# iQL Series Application Note

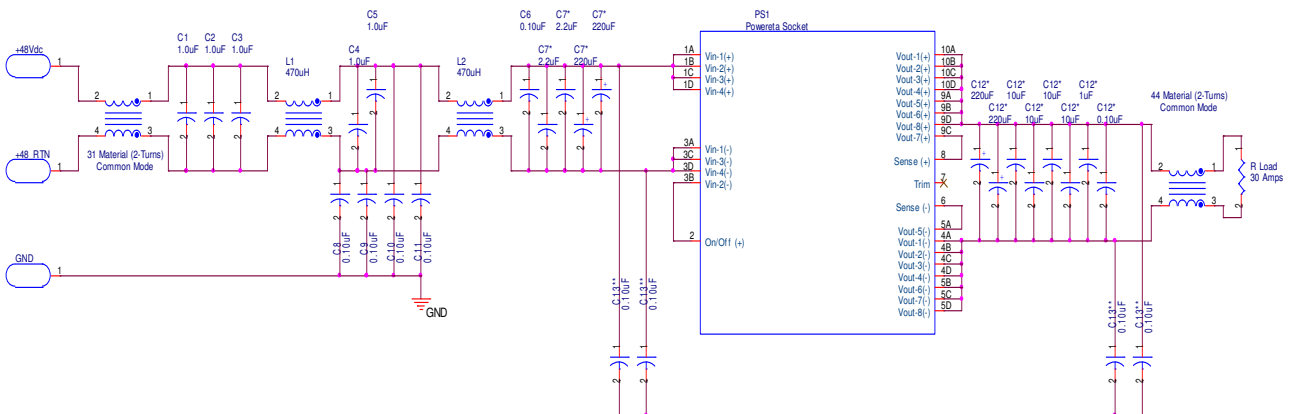


# EMI Filter

## CISPR B

### Conducted Emission

#### (Test Setup and Recommended Filter)



\*\*\*\*\* NOTE \*\*\*\*\*

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

#### EMC Considerations:

TDK Innoveta power modules are designed for use in a wide variety of systems and applications. With the help of external EMI components 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 Innoveta 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:

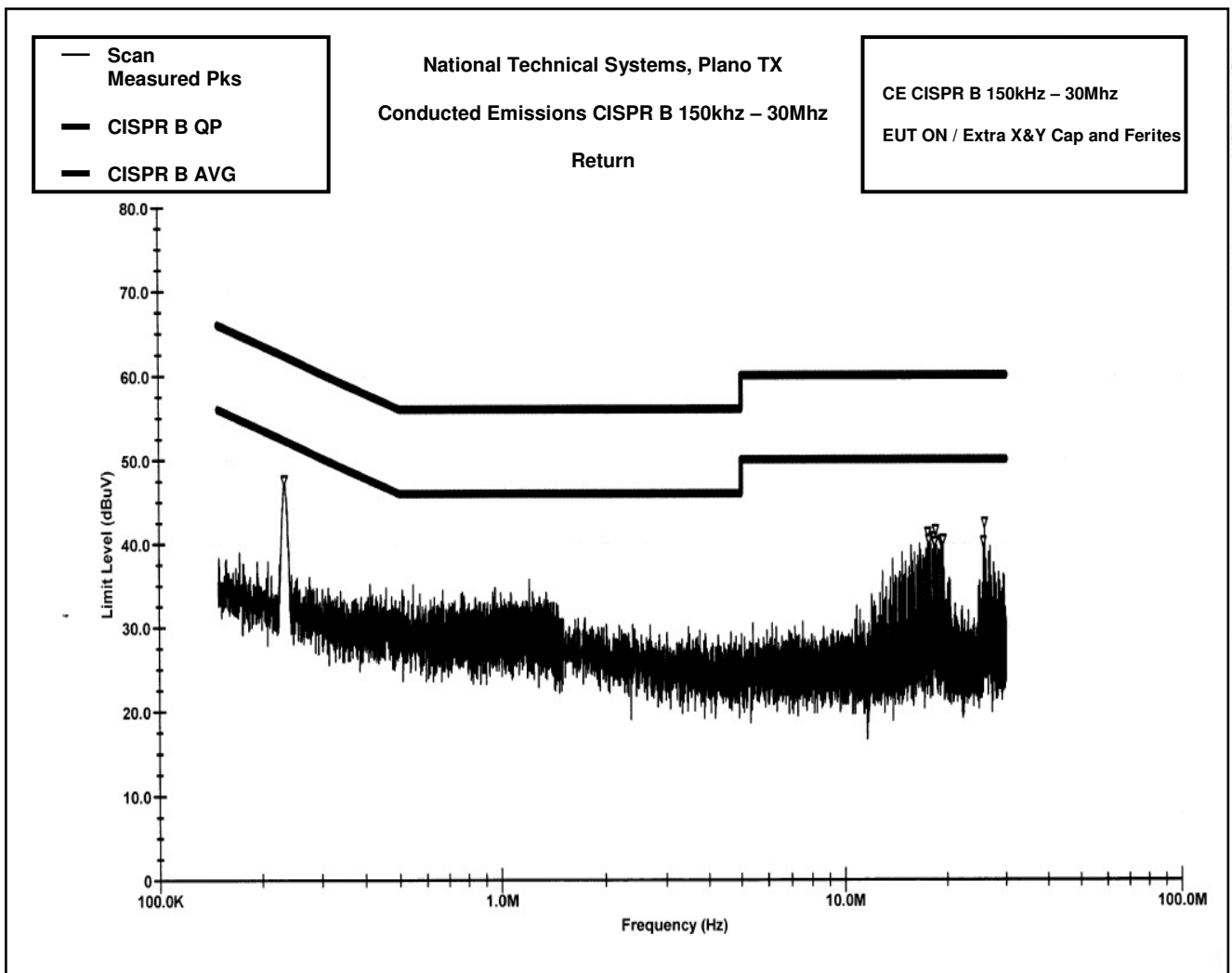
- iQG48033A120V
- $V_{in}$ : 48V
- $I_{out}$ : 30A resistive load

The same input circuitry is use for the iQG and iQL series. Therefore the iQG recommended EMI filter is also recommended for the iQL series.

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(Results from above Set-up)



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