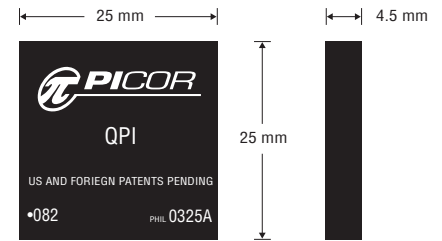


Active EMI Input Filters (QPI Series) For 24/28 V and 48/60 V BUS applications

Features

- Up to 60 dB CM attenuation at 250 kHz
- Up to 80 dB DM attenuation at 250 kHz
- Efficiency: >99% at full load
- High density, low profile LGA package
- Integrated Hot-Swap in select models
- -40° to +100°C PCB temperature
- TÜV approved
- Saves up to 50% board space vs. standard filters
- Compatible with most DC-DC converters



QUIETPOWER™

Product Description

The QPI family of active EMI filters provides conducted common-mode (CM) and differential-mode (DM) attenuation from 150 kHz to 30 MHz (CISPR22 range). The proprietary active filtering circuit provides superior attenuation at low frequencies intended to support EN Class B limits, including PICMG® 3.0 for ATCA boards.

In comparison to passive solutions, the use of active filtering reduces the volume of the common-mode choke, providing a low profile, surface mount device. Smaller size saves valuable board real estate and the reduced height enhances airflow in blade applications.

Applications

- PICMG® 3.0 ATCA applications
- Networking and communications
- Fan tray assemblies
- Telecom
- Industrial
- Military

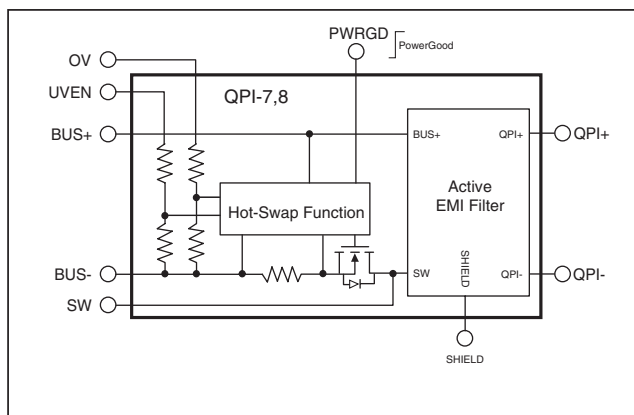
QPI Evaluation Boards Available

For more information, go to picorpower.com

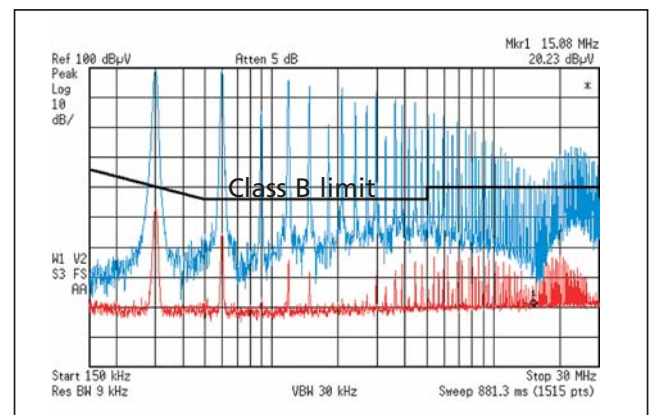


Part Numbering

Part Number (Z = RoHS)	Input Voltage	Nominal Range	Current Rating	CM Attenuation @250 kHz	DM Attenuation @250 kHz	Hipot	Integrated Hot-Swap	Package
QPI-3L(Z)	24/28 Vdc	10 – 40 Vdc	7 A	60 dB	80 dB	707 Vdc	—	full
QPI-4L(Z)	48/60 Vdc	30 – 80 Vdc	7 A	40 dB	70 dB	1,500 Vdc	—	full
QPI-5L(Z)	24/28 Vdc	10 – 40 Vdc	14 A	60 dB	80 dB	707 Vdc	—	full
QPI-6L(Z)	48/60 Vdc	30 – 80 Vdc	14 A	40 dB	80 dB	1,500 Vdc	—	full
QPI-7L(Z)	24/28 Vdc	18 – 38 Vdc	6 A	50 dB	80 dB	707 Vdc	Yes	full
QPI-8L(Z)	48/60 Vdc	32 – 76 Vdc	6 A	40 dB	70 dB	1,500 Vdc	Yes	full



Block diagram, QPI with integrated Hot-Swap



Conducted EMI scans showing QPI performance. Blue trace = no QPI; Red trace = with QPI.