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Alpha & Omega Semiconductor Introduces Three Integrated EMI Filters for Next Generation Portable Handheld Devices

Expanded Family of EMI Filters Offers Advanced Filter Attenuation Performance

SUNNYVALE, Calif, December 9, 2008 – Alpha & Omega Semiconductor, Inc. (AOS) announced the release of AOZ803x, a family of multi-line EMI Filters. These devices are designed and optimized to suppress unwanted EMI/RFI signals and provide ESD protection for next generation portable handheld devices such as cell phones, smart phones and portable navigation devices.

Leveraging the company's advanced [TVS]²™ technology (Transient Voltage Suppression utilizing Trench Vertical Structures), the new products are ideal for EMI filtering and ESD protection of data lines in LCD displays and I/O interfaces in handheld devices.

“Compared to competing devices, our new multi-line EMI Filters provide a consistent -35dB filter attenuation from 0V to 5V which covers the entire display operating range. This feature greatly optimizes filter attenuation performance to improve overall device reliability and user experience,” said Wayne Eng, Marketing Director for AOS’ TVS products.

Technical Highlights

The AOZ803x EMI Filter product family features three products. The AOZ8030, AOZ8035 and AOZ8033 protect 8, 6 and 4 lines, respectively. The filter performance is rated at -35dB attenuation from 800MHz to 3.0GHZ over the full operating range of battery powered LCD displays.

In addition, the device's excellent low channel clamping voltage of 10V maximum at 12A peak pulse current provides superior protection to sensitive IC components. All devices are rated to provide ESD protection of ±20kV for contact and ±20kV for air discharge.

The AOZ803x products come in small footprint 0.4mm pitch DFN packages which are ideal for handheld applications where board space is limited.

Pricing and Availability

The AOZ803x family is available immediately in production quantities. The table below shows brief specifications and pricing.

Part Number	Lines Protected	Description	Package	Unit Price (1K+)
AOZ8030	8 lines	-35dB attenuation from 800MHz to 3.0GHz	DFN1.2x3.5, 0.4mm pitch	\$0.22
AOZ8033	4 lines	-35dB attenuation from 800MHz to 3.0GHz	DFN1.2x1.8, 0.4mm pitch	\$0.15
AOZ8035	6 lines	-35dB attenuation from 800MHz to 3.0GHz	DFN1.2x2.5, 0.4mm pitch	\$0.19

About AOS

Alpha & Omega Semiconductor, Inc. is a fabless semiconductor company that develops leading edge analog power management solutions. AOS offers a wide portfolio of power MOSFET, Power IC and Transient Voltage Suppressor products that incorporate advances in device design, silicon, and packaging technologies. AOS' products meet the ever increasing performance and power efficiency requirements in high volume consumer applications such as portable and desktop computers, digital cameras, cell phones, and LCD panels. AOS has offices worldwide including the United States, China, Hong Kong, Taiwan and South Korea. For more information, please visit www.aosmd.com

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