

**FOR IMMEDIATE RELEASE**

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## Alpha and Omega Semiconductor Announces 2-in-1 Super Low Capacitance TVS for USB4.0 & Thunderbolt 4.0 & HDMI2.1 Protection

SUNNYVALE, Calif., April 26, 2022 – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors, power ICs, and digital power products today announced the release of AOZ8S204BL2 and AOZ8S205BL2 a 2-in-1 transient voltage suppressor (TVS) for super high-speed line protection using the latest Super Low Cap TVS platform and advanced packaging. These new devices are ideal for USB Type-C and HDMI applications such as notebooks, desktop PC, game console, and 4K & 8K TVs.

With such ultra-low capacitance of 0.15pF and 0.075pF, AOZ8S204BL2 and AOZ8S205BL2 are optimized for super high-speed line, protection including but not limited to USB4.0, Thunderbolt 4.0, HDMI2.1 and avoiding the transmission error by minimizing the capacitance effect. AOZ8S204BL2 and AOZ8S205BL2 are two channels devices (2-in-1) and housed in a 0.63x0.33mm leadless Surface-Mounted Device (SMD) and perfectly suited to fit the small footprint requirement of a USB Type-C connector.

2-in-1 with ultra-low capacitance device provides the best solution for an ideal pin-out for differential signal, space saving of super high-speed interface application, and reduces the part counts on circuit board. We believe this new approach (2-in-1 with ultra-low capacitance device) benefits customers to accomplish the best design and logistics management.

“As the leading vendor in ESD protection solutions in high-speed interfaces such as USB, HDMI, and Thunderbolt, we have released a new TVS platform that provides a much better figure of merit (FOM) on the clamping voltage times capacitance. In addition to low capacitance, it is also important to have a lower clamping voltage and faster response during the ESD event to protect the ESD-sensitive chipset. The new platform of Super Low Cap with very low capacitance and very low clamping voltage is ideal for high-speed line protection,” said Charles Chen, Marketing Director of TVS Product Line at AOS. “We believe the new competitive platform will reduce the ESD failure rate in our partners and customers’ electronic products.”

**Technical Highlights**

Part Number	Channel	V <sub>RWM</sub> (V)	Rated I <sub>pp</sub> (A)	Capacitance C <sub>J</sub> (pF)	V <sub>CL</sub> (V) at I <sub>TLP=16A/13A*</sub>	Application
		Max	Max	Typ	Typ	
<a href="#">AOZ8S204BL2-03</a>	2	3.3	8.5	0.15	6	Thunderbolt4.0, USB4.0, HDMI2.1
<a href="#">AOZ8S204BL2-05</a>	2	5	8.5	0.15	6	Thunderbolt4.0, USB4.0, HDMI2.1
<a href="#">AOZ8S205BL2-03</a>	2	3.3	3	0.075	13*	Thunderbolt4.0, USB4.0, HDMI2.1
<a href="#">AOZ8S205BL2-05</a>	2	5	3	0.075	13*	Thunderbolt4.0, USB4.0, HDMI2.1

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## **Pricing and Availability**

The AOZ8S204BL2-03, AOZ8S204BL2-05, AOZ8S205BL2-03, and AOZ8S205BL2-05 are immediately available in production quantities with a lead time of 20 weeks. The unit price for 1,000 pieces is \$0.114 for AOZ8S204BL2-03 and AOZ8S204BL2-05, and \$0.135 for AOZ8S205BL2-03 and AOZ8S205BL2-05.

## **About AOS**

Alpha and Omega Semiconductor Limited, or [AOS](http://www.aosmd.com), is a designer, developer, and global supplier of a broad range of power semiconductors, including a wide portfolio of [Power MOSFET](#), [IGBT](#), [IPM](#), [TVS](#), [HVIC](#), [SiC](#), [Power IC](#), and [Digital Power](#) products. AOS has developed extensive intellectual property and technical knowledge that encompasses the latest advancements in the power semiconductor industry, which enables us to introduce innovative products to address the increasingly complex power requirements of advanced electronics. AOS differentiates itself by integrating its Discrete and IC semiconductor process technology, product design, and advanced packaging know-how to develop high-performance power management solutions. AOS's portfolio of products targets high-volume applications, including portable computers, flat-panel TVs, LED lighting, smartphones, battery packs, consumer and industrial motor controls, automotive electronics, and power supplies for TVs, computers, servers, and telecommunications equipment. For more information, please visit [www.aosmd.com](http://www.aosmd.com).

## **Forward-Looking Statements**

This press release contains forward-looking statements based on current expectations, estimates, forecasts, and projections of future performance based on management's judgment, beliefs, current trends, and anticipated product performance. These forward-looking statements include, without limitation, references to the efficiency and capability of new products and the potential to expand into new markets. Forward-looking statements involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. These factors include but are not limited to the actual product performance in volume production, the quality and reliability of the product, our ability to achieve design wins, the general business and economic conditions, the state of the semiconductor industry, and other risks as described in the Company's annual report and other filings with the U.S. Securities and Exchange Commission. Although the Company believes that the expectations reflected in the forward-looking statements are reasonable, it cannot guarantee future results, level of activity, performance, or achievements. You should not place undue reliance on these forward-looking statements. All information provided in this press release is as of today's date unless otherwise stated, and AOS undertakes no duty to update such information, except as required under applicable law.

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