Mobix Labs Launches New Family of Filtered D-Sub Connectors for Defense, Aerospace, Medical, and Commercial Applications

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MPC/MCD Series Connectors Provide Superior EMI Filtering in Demanding Environments

IRVINE, Calif.--(BUSINESS WIRE)--Aug. 12, 2024-- Mobix Labs Inc. (Nasdaq: MOBX), a leader in advanced connectivity solutions, today introduced a new family of filtered D-sub connectors designed to eliminate unwanted electromagnetic interference (EMI) in defense, aerospace, medical, and commercial applications. These connectors feature robust construction and superior EMI filtering capabilities, ensuring optimal performance and reliability in the most demanding environments.

Mobix Labs' filtered D-sub connectors provide a practical solution for integrating EMI suppression with data connectivity, making them essential in environments where signal integrity and interference reduction are paramount. By integrating filtering components directly into the connector, these products help maintain the integrity of transmitted signals and eliminate the need for separate filtering devices. This integration saves space and reduces costs, making these connectors more efficient. The new filtered D-sub connectors come in various pin configurations, accommodating different data transmission needs, and maintain the standard D-sub interface for easy compatibility with existing systems.

"Our new filtered D-sub connectors are engineered to meet the stringent requirements of today's high-performance applications across multiple industries," said Bob Ydens, General Manager of EM Filters at Mobix Labs. "With advanced EMI filtering options and customizable designs, these connectors provide exceptional signal integrity and resilience, supporting our commitment to innovation and quality in connectivity solutions."

Filtered D-Sub Connector Features

- **Advanced filtering options**: Available with planar arrays, ceramic (Pi) tubes, or chip capacitors to ensure optimal signal integrity.
- **High insertion loss**: Achieves insertion loss of 70-80 dB for Pi filters and 50-60 dB for C filters, ideal for minimizing resonance in high-demand environments.
- **Customizable designs**: Tailored to meet specific requirements of defense, aerospace, medical, and commercial applications.
- **Robust construction**: Nickel-plated steel shell with nickel-plated aluminum backshell and copper alloy nickel-gold plated contacts for maximum durability and reliability.
- **High current rating**: Rated at 5 amps with a maximum contact resistance of 10 milliohms.
- **Versatile mounting options**: Available with 4-40 threaded nuts and/or board locks; also offered in high-density D-sub connector configurations.
- **Capacitance values**: 200 pF Pi, 1,000 pF Pi, 2,500 pF Pi, 4,000 pF Pi, 100 pF C, 500 pF C, 1,200 pF C, and 2,000 pF C.

New MPC/MCD Series Product Lineup

The new filtered D-sub connectors are available in Pi Filter (MPD) and C Filter (MCD) configurations to meet diverse application needs:

- **MPDXFSQ MPD/MCD Series - Female with square post terminations**
- **MPDXFP MPD/MCD Series - Female with PC tail terminations**
- **MPDXFS MPD/MCD Series - Female with solder cup terminations**
- **MPDXMSQ MPD/MCD Series - Male with square post terminations**
- **MPDXMP MPD/MCD Series - Male with PC tail terminations**
- **MPDXMS MPD/MCD Series - Male with solder cup terminations**

Availability

Mobix Labs' filtered D-sub connectors are available for customization to meet specific application compliance requirements. For additional information and inquiries, please contact our sales team at sales@4emi.com.

About Mobix Labs

Based in Irvine, California, Mobix Labs is a fabless semiconductor company delivering advanced wireless and wired connectivity, RF, switching and filtering technologies for next-generation communication systems. Our solutions support aerospace, defense, 5G, medical, industrial and other high-reliability markets. We specialize in electromagnetic interference (EMI) solutions for secure aerospace GPS systems, optical cables for high-speed interconnect and AI datacenters, mmWave radar and imaging for commercial applications, ensuring high performance and reliability in demanding applications. Visit mobixlabs.com and follow us

on LinkedIn.

Forward-Looking Statements

This press release contains forward-looking statements. These statements are made under the "safe harbor" provisions of the U.S. Private Securities Litigation Reform Act of 1995. Statements that are not historical facts, including statements about capturing additional opportunities in the future, are forward-looking statements. Forward-looking statements involve inherent risks and uncertainties, and a number of factors could cause actual results to differ materially from those contained in any forward-looking statement, such as Mobix Labs' ability to deliver the filtered D-sub connectors, as well as the potential for an increase in sales volume. In some cases, forward-looking statements can be identified by words or phrases such as "may," "will," "expect," "anticipate," "target," "aim," "estimate," "intend," "plan," "believe," "potential," "continue," "is/are likely to" or other similar expressions. All information provided in this press release is as of the date of this press release, and Mobix Labs undertakes no duty to update such information, except as required under applicable law.

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