ERNI VOLTRON 1000V CONNECTOR

TE Connectivity's (TE) ERNI VolTron 1000V high voltage sensing connector is specifically designed to use in the Battery Management System (BMS) and Battery Disconnect Units (BDU) to measure voltage across the battery architecture and ecosystem.

The connector´s multiple design features, high CTI materials and contact surfaces maximize creep and clearance.

This results in high performance value of up to 1000V, strong dielectric strength and capability to use above 5000M sea level, with pollution degree 2 according to IEC 60664-1. The connector complies to LV214, LV215 and USCAR automotive standards.

BENEFITS

- Increased voltage in battery architecture
- Reduced connector height provides more freedom for design of compact BMS
- Suitable to use in harsh environments and automotive standards

FEATURES

- Up to 1000V signal measurement capability
- Miniaturization grade with low profile
- CTI 600 materials and Au terminal contact surface
- 5000M altitude compensation

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APPLICATIONS

- Battery Management System (BMS); Battery Disconnect Unit (BDU)
- Integrated power electronics
- In broad range of applications where high voltage needs to be measured on a constant basis

MECHANICAL

- Vibration severity SG2 (LV214)
- SMT termination
- MaxiBridge crimp contact (LV214 and SMBT approved)
- Primary and secondary locking
- 2 Color and mechanical codings

ELECTRICAL

- Up to 1000V operating voltage
- Dielectric strength 2.500V (LV215) / 3.700V
- Terminal rated up to 6A (0.35mm^2)
- 500 mating cycles

MATERIALS

- CTI 600 resins
- UL 94 V-0 flammability resistance
- Gold surface contacts
- -55°C up to 150°C temperature range

STANDARDS

- LV214
- LV215 (VW80332)
- USCAR 37

SPECIFICATIONS

- 108-94917 product specification
- 108-94917-1 product specification
- 114-94917 application specification

PRODUCT INFORMATION

Part image	Part number	Part description
	524191-E	VolTron 2 POS Female Con BK TR
	524192-E	VolTron 2 POS Female Con OR TR
	524197-E	VolTron 5 POS Female Con BK TR
	524198-E	VolTron 5 POS Female Con OR TR
	524226-E	VolTron 2 POS 90 HDR SMD BK T+R
	524227-E	VolTron 2 POS 90 HDR SMD OR T+R

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PRODUCT INFORMATION

Part image	Part number	Part description
	524232-E	VolTron 5 POS 90 HDR SMD BK T+R
	524233-E	VolTron 5 POS 90 HDR SMD OR T+R
	464762-E	MaxiBridge 0.6 REC TERMINAL Au 0.35-0.5mm 10K
	464763-E	MaxiBridge 0.6 REC TERMINAL Au 0.35-0.5mm 500

APPLICATION TOOLING

Part image	Part number	Part description
	2837428-1	OCEAN 2.0 Applicator or S-062F071O

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