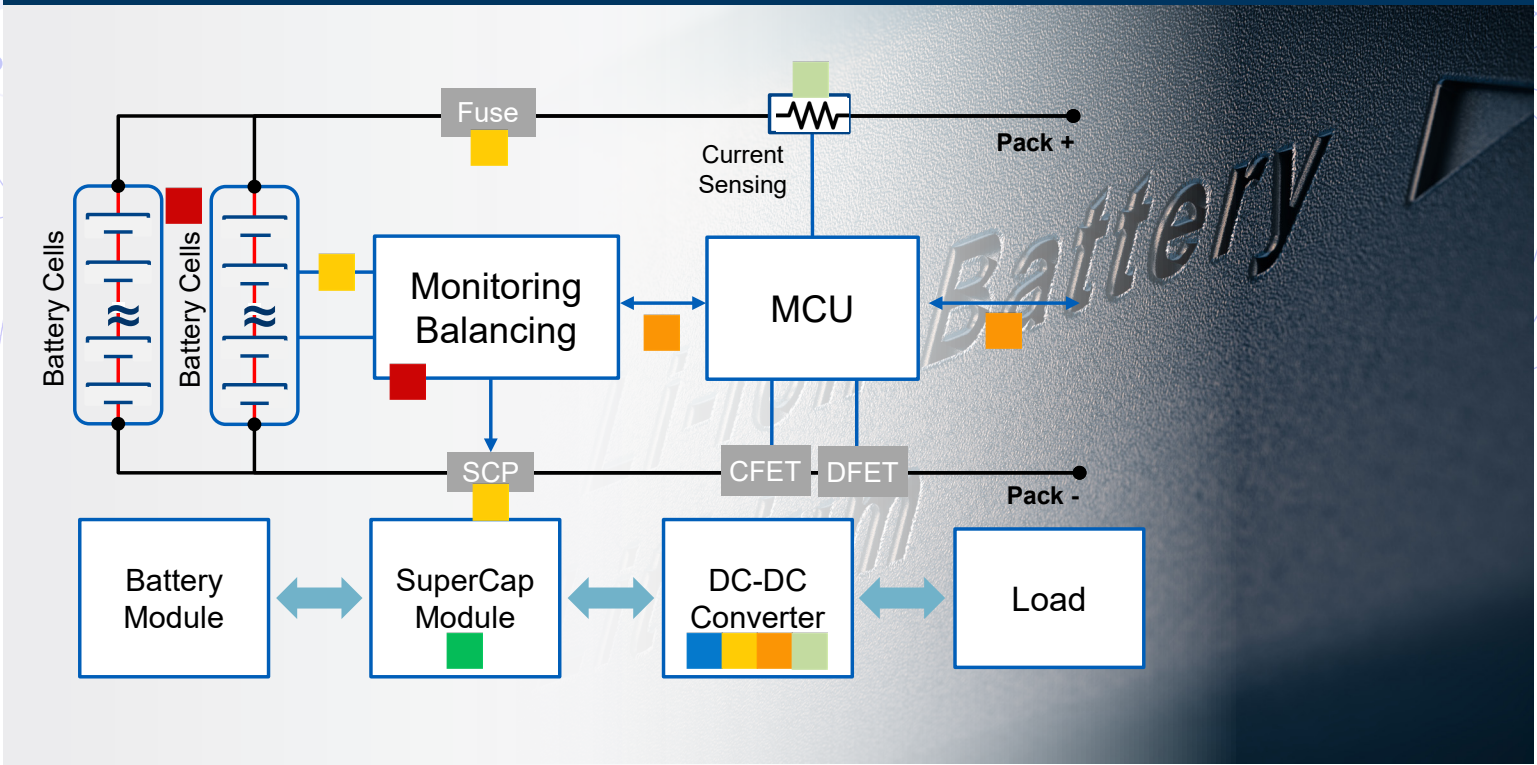


Battery Pack

In a world where energy efficiency and sustainability are ever-demanding, electronic components need to ensure that battery packs not only deliver power but do so safely, intelligently, and with the promise of a greener future.

How electronic components used here?



Magnetics Sensors Supercaps Circuit Protection

	Product	Series
	SMD fuses	0603FA (0.25 A - 5 A)/CC06H (0.5 A - 8 A)/CC12H (0.25 A - 30 A)/2410FA (0.5 A to 15 A)
	PTC resettable fuses	PTR/PTS/PTSLR
	Self-control fuses	SCF4030 (up to 22 A)/SCF5432 (up to 30 A)/SCF9550 (up to 45 A)
	High current bolt down fuses	AMX/AMXL (up to 350 A)/AMH (up to 30 A)
	Data line: TVS Diodes ESD Suppressors/Polymer ESD suppressors/Multilayer varistors	TVS Diode/TVS Diode Array/PolySurg/MLV Varistor
	Power Line: High power TVS Diodes	TVS Diode SMFE (200 W)/TVS Diode SMAJE (400 W)/TVS Diode SMBJE (600 W) /TVS Diode SMCJE (1500 W)
	Coin cell supercaps	KR/KVR/KW/KVW
	Cylindrical supercaps	TV
	Cylindrical pack supercaps	PHB
	Current sense resistors/transformers	Metal Film/Metal Alloy Foil/Metal Strip/Power Shunts
	Thermistors	NTC Thermistors
	Molding power inductors/ Semi-shielded power inductors	EXL1V/HCM1A/MPIA SDCL/SDCH
	Ferrite beads/Chip inductors	MFB

Recommended Products



2410FA SMD High current brick fuses

- 2410 (6125 metric) surface mount package
- Fast acting
- Current rating: 500 mA to 15 A



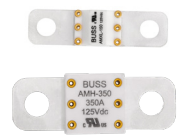
PTSLR PTC resettable fuses

- EIA/Metric Sizes: (0603/1608), (0805/2012), (1206/3126), (1210/3225) and (1812/4532)
- Hold current rating: 0.5 A to 7.5 A
- Low resistance down to 1 mΩ
- Fast time to trip: 0.2 seconds



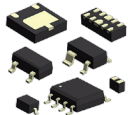
SCF Self-control fuses

- 4 x 3 mm, 5.4 x 3.2 mm, 9.5 x 5 mm SMT sizes, 3-terminal
- Current rating: 12 A to 45 A
- Operational voltage up to 80 Vdc



AMX/AMXL, AMH High current bolt down fuses

- Current rating up to 500 A
- Voltage up to 125 Vdc
- Interrupting rating up to 20,000 A



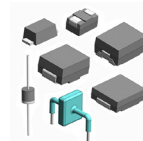
TVS diodes ESD Suppressors

- Voltages from 3.3 V up to 70 V
- Capacitances down to 0.07 pF
- Up to 30 kV ESD withstand
- 5000 W peak power dissipation on an 8/20 μs waveform
- Low clamping voltage



MLV Multilayer varistors

- Voltages from 5.5 Vdc up to 200 Vdc
- Capacitances down to 0.5 pF
- Package size: standard 0402/1005 to 1206/3216; High energy: 0805/2012 to 4032/10280



High power TVS diodes

- 1000 A - 10000 A transient voltage suppressors
- Through hole package
- Very low clamping voltage



Polymer ESD suppressors

- Single line 0402/1005, 0603/1608 and array 1004/2510, 1206/3216 packages
- Ultra-low capacitance (0.05 pF)
- Very fast response time



ECST

Current sense transformers

- SMT sizes: 5 mm, 7 mm, 8 mm, 13 mm (3 mm to 8 mm height)
- Turn ratios available 20:1 to 200:1 and rated up to 15 A
- -40 °C to +125 °C



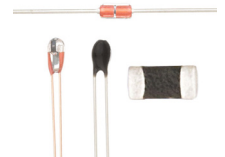
Metal strip resistors

- 0603 (1608 metric) to 2512 (6432 metric) package
- Power ratings up to 3 W
- Resistances down to 1 mΩ



Metal film resistors

- 0402 (1005 metric) to 2512 (6432 metric) package
- High power dissipation, low sensing resistance
- Resistances down to 1 Ω



Nxx NTC thermistors

- Surface mount, radial, axial, and ring lug options
- Epoxy sealed and glass sealed options available



TV

Cylindrical supercaps

- 3 V operating voltage
- Capacitances from 3.3 F to 100 F
- -40 °C to +85 °C



PHB

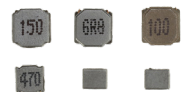
Cylindrical pack supercaps

- Two HB family cells integration
- Easy to mount, single part for 3 V to 5 V systems
- Capacitances from 1.5 F to 5 F
- Low ESR, -25 °C to +70 °C



MFB Ferrite beads

- EIA/Metric Sizes: (0402/1005), (0603/1608), (0805/2012), (1206/3126)
- High impedance up to 2000 Ω, high current up to 6 A
- -55 °C to +125 °C (High temperature rating)
- AEC-Q200 version available



SDCL&SDCH Semi-shielded inductors

- 7 footprints: 2 mm - 8 mm; height options: 1 mm to 4.5 mm
- Inductance range: 0.33 μH to 1000 μH, ISTA up to 14 A, low DCR
- -40 °C to +125 °C
- AEC-Q200 version available

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