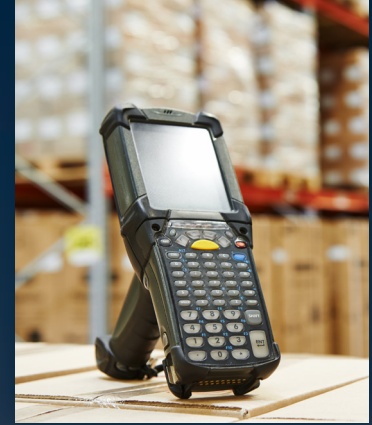


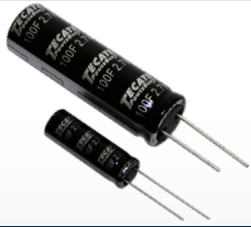
Tecate Group

Customer-driven power solutions



Ultracapacitors, Capacitors, and Assemblies

TPL 2.7V

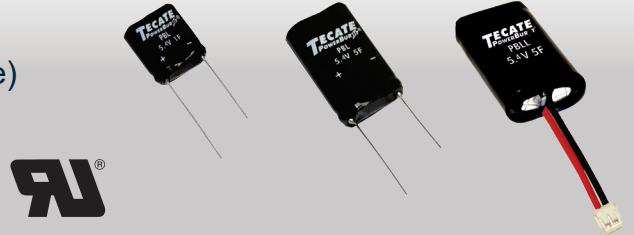


- Cylindrical package
- Radial leaded
- 0.5 ~ 100F
- UL recognized



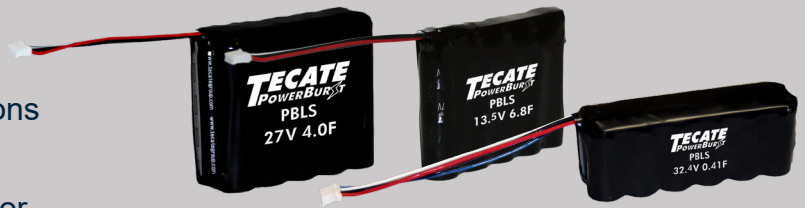
PBL/PBLL 5.0/5.4V

- 0.25 ~ 15F
- Balancing option: active, passive, and NB (low leakage)
- Radial leaded with flexible lead and connector options
- Custom capacitance and voltage options
- UL recognized



PBLS 8.1 ~ 32.4V

- 0.41 ~ 16.66F
- Unique slim-profile design
- Wide variety of capacitance and voltage options
- Flexible lead and connector options
- Passive cell balancing and on-board thermistor



-40 ~ +65°C

TPLS 2.7V



- Cylindrical package
- Radial snap-in leads
- 100 ~ 400F
- UL recognized



PC 2.5V



- Hermetically sealed
- Flat prismatic package
- 5.0mm Profile
- Radial leaded
- 4F, 10F
- Custom configurations available

PBL/PBD 16.2V

- 25F and 58F modules
- Active cell balancing
- UL-recognized cells
- Screw terminals
- Shrink sleeving or metal enclosure



-40 ~ +65°C

PC5-5 5V




- 2F
- Hermetically sealed thin prismatic design
- Active cell balancing
- Flexible leads and connector

-40 ~ +70°C

Ultracapacitors and Modules

TPLH 2.7V to 3.0V

- Extensive product offering from 0.50F to 3400F
- RoHS compliant
- UL recognized 
- Superior charge/discharge capability
- Long cycle life performance
- Maintenance free
- Customized small cells
- Wide operating voltages



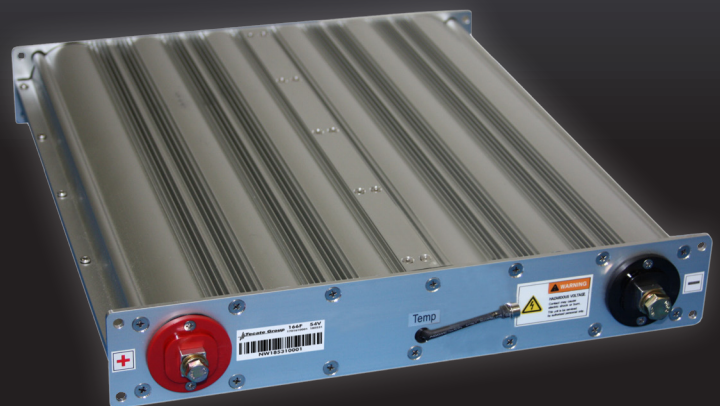
PBLH 10.8V, 12V

- 87F, 100F, 112F, and 150F modules available in common form factor
- Passively balanced
- UL-recognized cells
- Ruggedized plastic housing
- Lug connections
- Lightweight with multiple mounting orientations



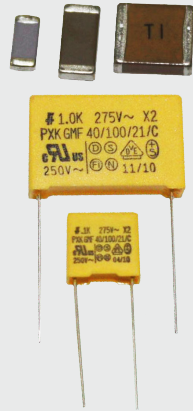
PBLH 18V, 54V

- Active balancing
- Up to 1 million duty cycles or 10-year DC life
- 18V DC working voltage
- Active cell balancing
- Temperature output
- High power density
- Fully enclosed aluminum module
- UL-recognized cells



Specialty

- Safety certified:
 - X2 Box film, 275 and 305VAC
 - X2 and Y1/Y2 SMT ceramics
- High voltage
- Arc protection
- Telecom tip & ring
- Snubber capacitor
- Hybrid conductive polymer
- Flexible termination SMT large geometry



Surface Mount, Radial

Aluminum Electrolytic

- 0.1 ~ 82000 μ F, 4 ~ 500V
- -55 ~ +130°C
- Up to 12000-hour life
- Polar, non-polar
- General purpose
- Low leakage
- Low ESR



Surface Mount, Radial, and Snap-In

Services

Binning Capabilities

- Proprietary testing algorithms
- Multiple readings on each device to ensure no out-of-bin failures
- Bin range down to 0.1%
- Bin tolerance of $\pm 0.05\%$
- Up to 100 bins

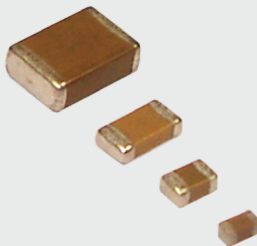


Matched Pairs

- Pairs of capacitors matched to within 0.002 to 0.005%
- Each pair delivered in a single bag with a unique serial number and capacitance reading for each capacitor in the pair
- Original readings kept electronically
- Matched triplets (three capacitors) available

Ceramic

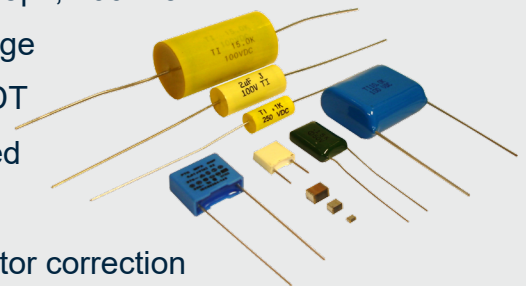
- 0.4pF ~ 220 μ F, 4V ~ 6kV
- General purpose
- Tip & ring
- Safety certified
- Arc protection
- High voltage
- RF/microwave
- Flexible termination



Surface Mount, Axial, Radial, and Disc

Film

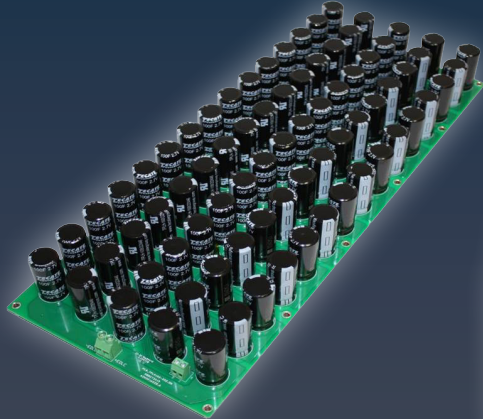
- 330pF ~ 18 μ F, 100 ~ 3kV
- High voltage
- High DV/DT
- Segmented
- Motor run
- Power factor correction
- PET, PPS, PEN, polypropylene film & foil metallized, and combination



Surface Mount, Axial, and Radial

Design

- USA-based engineering
- SolidWorks 3D modeling
- Custom PCB layouts
- Higher-level circuit integration
- UL810-recognized cells and modules
- Build to print
- Quick-turn prototyping



Cells

- Cylindrical and prismatic
- Custom sizes and capacitances available
- 2.3V @ 85°C
- 2.7-3.0V @ 65°C
- 0.33 to 3400F
- Low ESR
- Passive & active cell voltage balancing available

Interconnect

- Custom wire harnesses with customer-specified connectors
- Wire: various lengths, gauges, and colors
- Connectors or stripped and tinned leads
- Custom oversleeving for ease of wire routing
- Secondary wire harnesses for board location flexibility



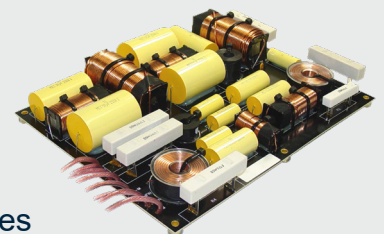
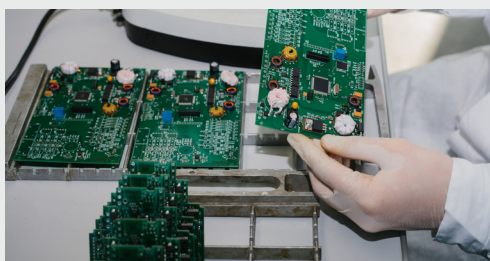
Packaging

- Shrink sleeving
- Molded plastic and metal enclosures
- Epoxy potted modules
- Unique form factor for space-constrained applications



Board Level Assemblies

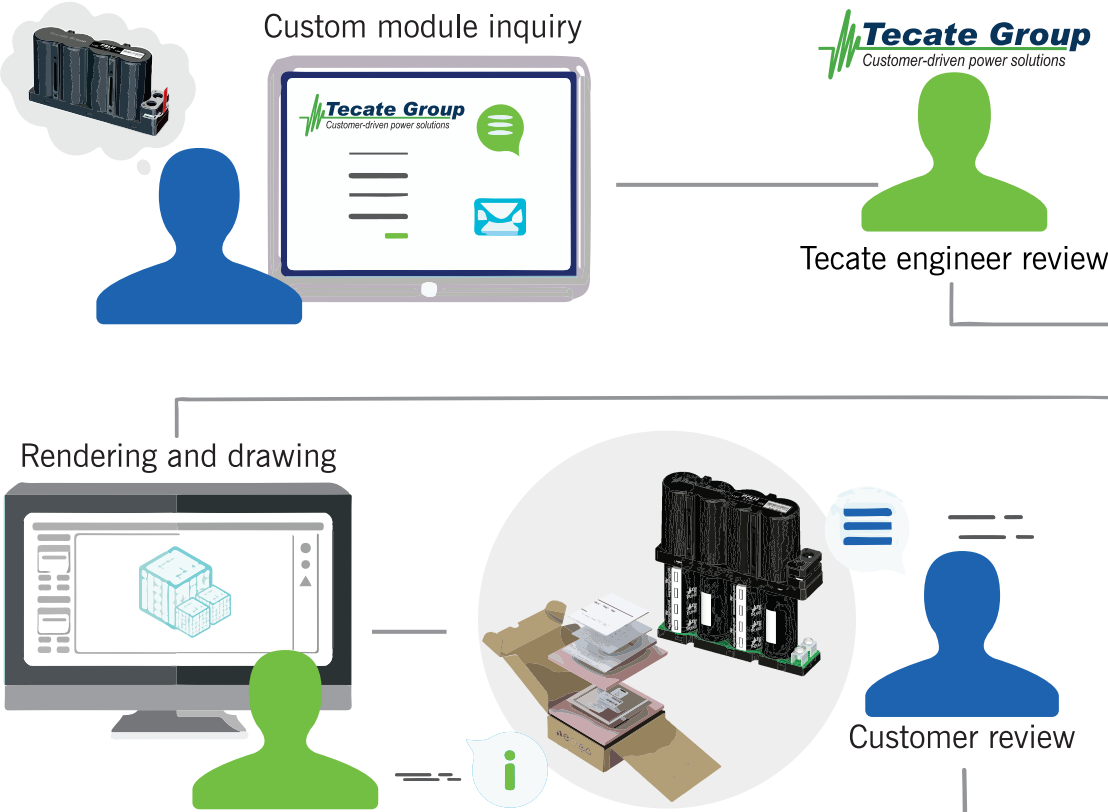
- Surface-mount and through-hole
- PCB sub-assemblies
- Audio crossover networks
- Speaker input assemblies
- Box build and final product assemblies



Capabilities include custom metal stamping and plastic injection molding

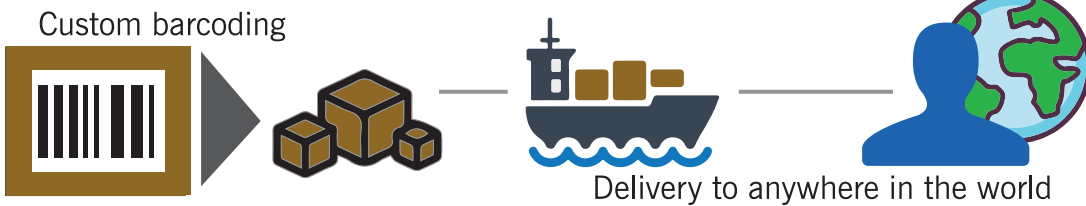
Tecate Group is based in San Diego, California and has 45 years of experience serving OEMs around the globe with capacitors and electronic assemblies.

Tecate Experience











Custom modules undergo testing, certification, and documentation. Tecate also offers options for custom barcode design.





The Tecate experience includes freight consolidation for cost-effective distribution, logistics optimization, and drop shipments to any location.



Specification confirmation

 VOLTAGE	 CURRENT
 DISCHARGE TIME	 OPERATING TEMP
 WIRE/ CONNECTORS	 PHYSICAL CONSTRAINTS
 PACKAGING/ COATING	 DOCUMENTATION

Services

 BARCODING	 COMPLIANCE
 TESTING	 LOGISTICS

ISO 9001:2015 Registered



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