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- Small Size
- Multiple ceramic, metal or polymer parts
- Complex internal features
  - Conductors
  - Dielectrics
  - Sensors
  - Capacitors
  - Channels, fluid paths
- Precise dimensions and tolerance



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## Battery Life: The Achilles Heel of TPS

- Battery life is a major concern
- Maintenance est. \$1,000/car lifetime
- · Major consumer dissatisfaction expected
- · Fear is customer will not replace dead batteries
- · Both OEMs and regulators want a battery alternative



























