

BREL Precision Components

SMT Resistor Technology

- **Microminiature Leaded Film Resistors and Leaded Chip Resistors (the World's Smallest)** – RKL-2, 50mW, Cylindrical, D=0.8mm x L=2.2mm LMR, 125 to 350mW, Chip Resistor Substrate Size=0504, 0805 or 1206 with Wire Leads
- **Thin Film Chip Resistors** – Tol= ±0.05% to 1%, TC=5-25ppm, Silicon or Ceramic Substrate
- **Thin Film Networks** – Tol= ±0.02% to 1%, TC=5-25ppm, Custom Design, Surface Mount/Leaded
- **Thick Film Chip Resistors** – Size=0202 to 2512, Range=0.10Ω to 100GΩ, Trimming Style Available
- **Thick Film Networks** – Custom Circuit Design, Flexible Layout, Low Tracking TCR, Surface Mount/Leaded
- **Miniature SMT Coils** – Size=0603 to 1206 Range=1.8nH to 1200nH Tol= ±5% to ±20%
- **Temperature Sensor Chips** – Size=0402-1206, Range=1R00Ω to 10K0Ω Tol= ±0.5% to 20% TC= +1500ppm to +4000ppm
- **Precision Pressure Sensors in Thinfilm** – Measuring Range= 10bar to 2000bar Bridge Resistance= 10KΩ ±15% TC= ±50ppm/K
- **Thinfilm Substrates for Flip Chip Technique** – SnPb Bumps, Bump Height= 40NM to 50NM Combines Flip Chip Technique, US and TS-Wire Bonding Technique, and SMD Solder Technique in One Circuit

Additional Products

- **Tantalum Capacitors**
- **Ceramic Monolithic Chip Capacitors**

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BREL International

Capacitor/Resistor Products

- **Aluminum Electrolytic** – Standard, Subminiature, Low Leakage, Non-Polar, Low ESR (Axial or Radial)
- **Plastic Film** – Polyester, Polypropylene, Polystyrene, Polycarbonate (Dipped, Encased, Axial-Wrap & Fill)
- **Ceramic** – Single Layer-Axial/Radial; Multilayer-Chip (Surface Mount – 0402 to 1812), Epoxy Dip (Thru Hole)
- **Resistors** – Carbon Film (1/8W-2W) ±2%, ±5%; Metal Film (1/8W-2W) ±0.1%, ±0.25%, ±0.5%, ±1% (25, 50, 100 ppm); Metal Oxide Film; Power: Wirewound-Cement Encased or Tubular-Epoxy Coated
- **Chip Resistors and Thick Film Resistor Networks** – Size=0402 to 2512, Tol= ±1%, ±2%, ±5%, TC=100-200ppm; SIP Network – 5 to 12 Pins
- **Potentiometers** – Rotary, Slide, Trimmer, Conductive Plastic, Custom Design – Multi-Section, Switched
- **Crystal Products** – Crystals, Oscillators – VCXO, TCXO, Dual-Output, Trimode, CMOS, TTL; Crystal Filters
- **Switches** – DIP Slide, Rocker, Toggle – Miniature Sizes
- **Jacks and Plugs** – DC Power, Earphone, Phono, DIN, Headphone Jacks, Stereo/Mono Plugs, DC Power Plugs
- **Cables and Connectors** – Line Cords, Computer Cables, RS-232, Centronics, Edge Card Connectors
- **Semiconductor Products** – Diodes, Rectifier, Small Signal, Zener, Schottkey & Rectifier Bridges

Specialized Products

LCR-Capacitors, Vogt AG – Stamped Metal Products, AB Electronic, Taitron Semiconductors, Potentiometers

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