

XG Series Eulex Gap Capacitors

Groundbreaking Technology for Advanced Broadband and RF Applications

Introducing the XG Series Eulex Gap Capacitor: a revolutionary design engineered to redefine performance in extreme high-frequency applications. Overcoming the limitations of conventional capacitor solutions, the XG Series Eulex Gap Capacitor sets a new standard, delivering unmatched results. Available in two configurations – the 2-Terminal [XG2] and 3-Terminal [XG3] – this innovation redefines high-frequency capacitor capabilities.

High-Performance Features

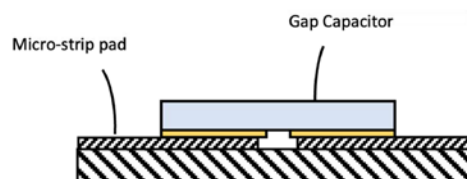
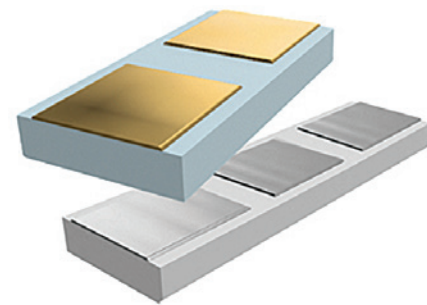
- 10x Increase in Capacitance
- Class 1 Dielectric Stability
- Higher Q
- Low Loss
- Ultra-Low ESR & ESL
- Ultra-High SRF
- Broadband Performance
- High Voltage and Power Handling
- Low Profile Suitable for SMD or Embedding
- Available in 2 and 3-terminal configurations
- *Filtering*
- *Decoupling*
- *Signal Coupling and DC Blocking*
- *Impedance Matching*
- *Designed for high continuous wave [CW] RF power handling - up to 500 Watts (validated up to 50 Watts CW)*

Novel Construction

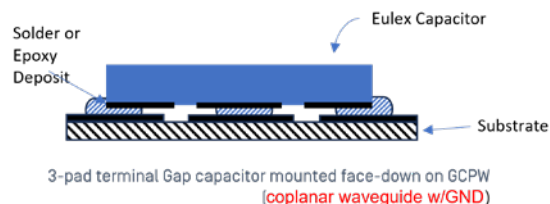
Proprietary Internal Geometry: Externally, the XG Series Eulex Gap Capacitor features a single-sided gapped pair of electrodes. However, what is not visible is the unique internal electrode geometry embedded within the dielectric material. This patented design enhances capacitance, achieves low ESR/ESL, and minimizes parasitic resonances.

Single-Layer Construction: Unlike MLCCs with their stacked layers, the XG Series Eulex Gap Capacitor maintains true a single-layer construction, minimizing resistive losses and enhancing high-frequency performance.

Streamlined Design: By eliminating wire bonds, vias, and traditional terminations – primary sources of parasitic inductance – the XG Series Eulex Gap Capacitor achieves enhanced reliability and minimizes mechanical vulnerabilities.



For general filtering, XG2 [2-Terminal] offers simplicity, durability, and performance for RF, microwave, and tuning.



XG3 [3-Terminal] offers superior high-frequency capabilities and frequency.

Quantic™ Eulex