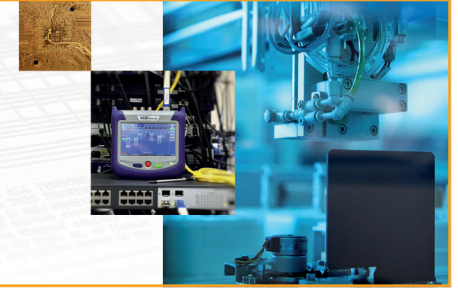


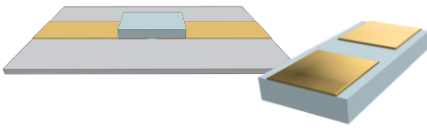
Ceramic Capacitors for the most demanding high frequency, microwave & millimeter-wave applications.



Patented technology allows ceramic capacitors to be manufactured with higher capacitance using fewer dielectrics while improving temperature and frequency performance in a high reliability package.

- Up to 20X capacitance
- Frequencies exceeding 100GHz
- Ultra-high Q dielectrics
- Simple part selection
- Wide range of voltages
- High Reliability

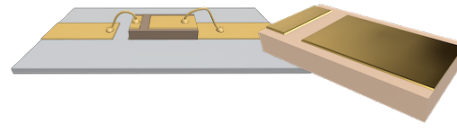
Featured Products



Gap Capacitors

Microwave / millimeter wave gap capacitor for DC blocking, RF bypass, impedance matching, filtering, tuning, coupling.

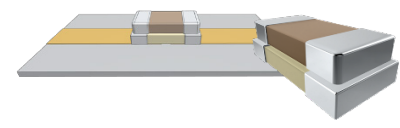
- › 10X Capacitance Design
- › Ultra-Stable High Q Dielectrics
- › 6.3 Volt to 100 Volt
- › Standard and Custom Sizes Available
- › No Wire-bond



Binary Capacitors

Suitable for Ga-As, 5G, telecom, industrial, military and space applications requiring high self resonance frequencies to 100GHz

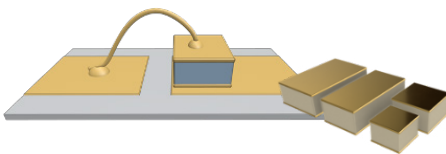
- › 20X capacitance design
- › Wire-bondable
- › Additional Capacitor on Device
- › Configurable Design



Broadband Blocks

Broadband Block combines Eulex patented Gap Capacitor with high capacitance MLCC. For microwave/mm-wave, optical transceivers, broadband test equipment.

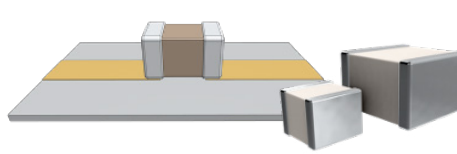
- › Size 0201 thru 0805 / 10, 100, 220nF
- › Low insertion Loss to 100GHz
- › Lowest Profile



Vertical Layer

High capacitance, wire-bondable MLCC. Class II dielectric for RF Bypass and DC Blocking for wide frequency range.

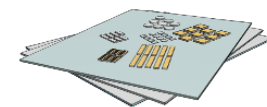
- › Miniature Form Factor (1515-5080)
- › Wire-bondable, Au Terminations
- › Class II (-55°C to 125°C)
- › High Frequency Response



Ultra-High Q

High frequency performance MLCC (high Q / low ESR design). Economical solution for demanding RF applications.

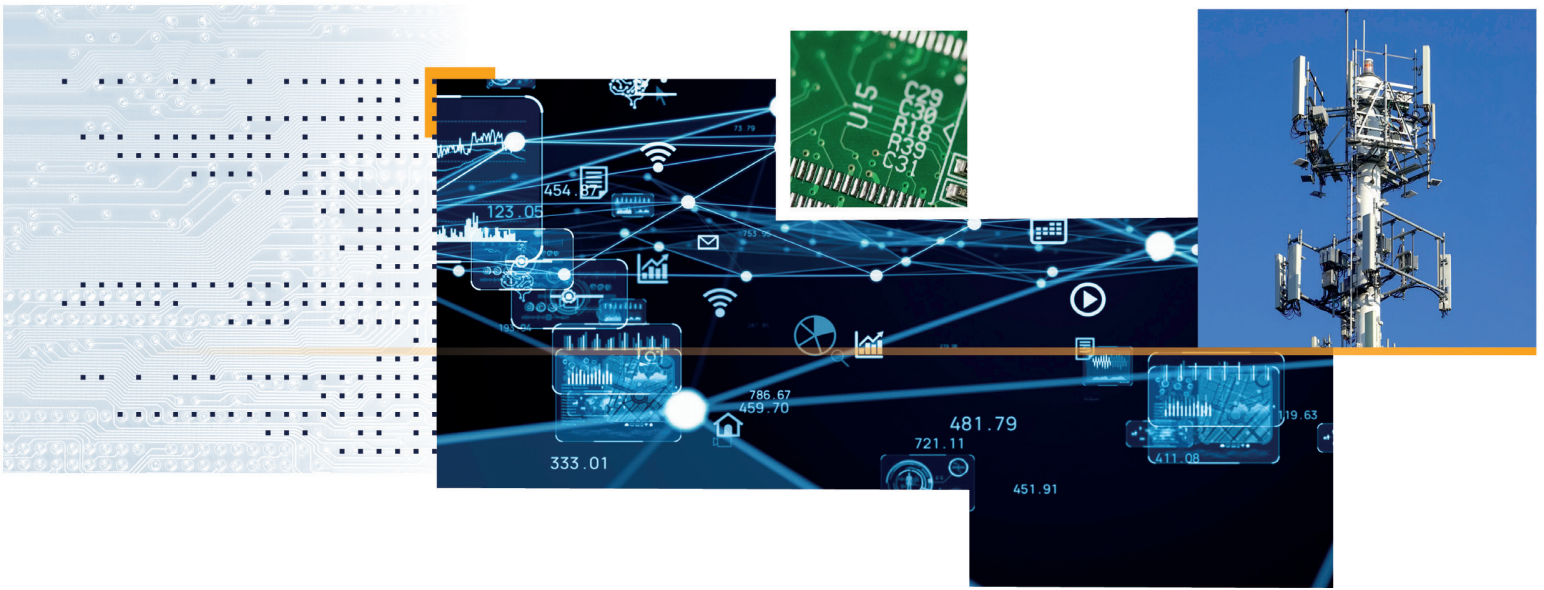
- › Size 01005 thru 1111
- › 0.1pF to 1000pF
- › 6.3 volt to 1500 volt
- › NPO dielectric ($\pm 30\text{ppm} / ^\circ\text{C}$)



Substrates

Eulex has the capability to manufacture custom substrates from a range of ceramic materials with thin or thick film metallization and inclusion of thick film resistors.

- › High Purity AlO
- › High Q dielectrics >100GHz
- › AlN with Exceptional Thermal Conductivity
- › Custom Size & Shape
- › Metallization Options



Common Applications

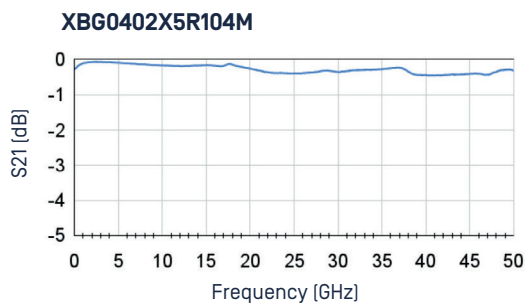
- 5G and next generation telecoms
- Test & Measurement
- AI & Machine learning new high speed architecture
- Automotive, mmwave / vision sensing, C-V2X
- Military & aerospace radar / sat coms
- Photonics

Design

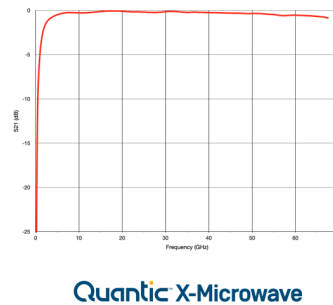
Quantic™ Eulex has extensive experience in ceramic capacitor design and manufacture for high reliability applications. Our patented design allows us to use the highest performing ceramic dielectric materials ensuring our products can operate with low loss over a wide range of frequencies. As well as offering our standard lines of product, we are happy to engage with design engineers to apply our technology and provide custom solutions for your applications.

Test Data

BroadBand Blocks Tested by **Quantic PMI**



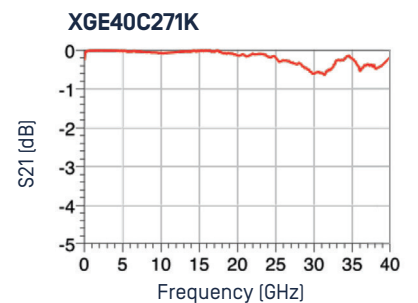
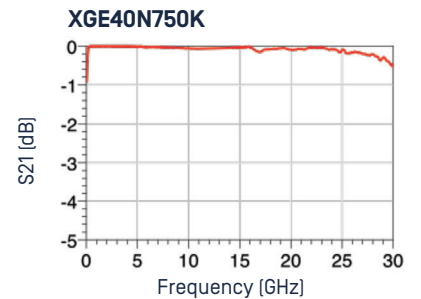
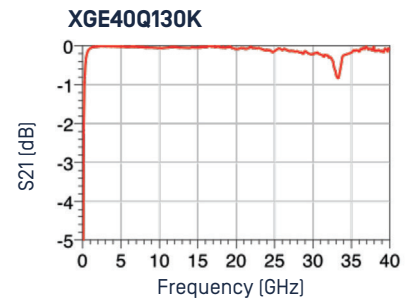
Low Insertion Loss Graph



Test Data

Gap Capacitors

Tested by **Modelithics®**



Quantic™ Eulex



www.powell.com



800-235-7880



quanticinfo@powell.com