

# **Introducing a Patented Ceramic Capacitor for Next Gen RF & Microwave**

Alex Moalemi & Euan Armstrong

Quantic™ Eulex

[alex.moalemi@quanticeulex.com](mailto:alex.moalemi@quanticeulex.com) & [euan.armstrong@quanticeulex.com](mailto:euan.armstrong@quanticeulex.com)

The microwave/millimeter wave “Eulex Gap Capacitor” was designed as a replacement for single layer wire-bondable ceramic capacitors. The move from wire-bond to surface mount design eliminates the variance and induction of the bond wire and simplifies manufacturing. Our patented technology allows us to achieve this while still maintaining the frequency performance of the true single layer capacitor. Further, it provides a gain up to 20X the capacitance of our competition for the same dielectric, case size, and voltage. This capacitance leverage is further extended at lower voltages not available in any other product on the market today.