

# 2018 Top 5 Multilayer Ceramic Capacitor (MLCC) Players in North America, Europe, Asia-Pacific, South America, Middle East and Africa

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### **Abstracts**

Multilayer ceramic chip capacitors, or MLCCs, are important building blocks in today's modern electronics and make up approximately 30% of the total components in a typical hybrid circuit module. Multilayer capacitors consist of a monolithic ceramic block with comb-like sintered electrodes. These electrodes come to the surface at the face ends of the ceramic block where an electrical contact is made by burnt-in metallic layers. Multilayer Ceramic Capacitor (MLCC) consist of a monolithic ceramic block with comb-like sintered electrodes. These electrodes come to the surface at the face ends of the ceramic block where an electrical contact is made by burnt-in metallic layers. There are SMD/SMT multilayer ceramic capacitor and leaded (radial/axial) multilayer ceramic capacitor. SMD/SMT multilayer ceramic capacitor is the mainly product in the world at present, represented about 93% of the global production market. The MLCC can be classified by dielectrics: X7R, X5R, C0G, Y5V, etc. X7R MLCC took about 1/3 of the total MLCC market and X5R took up about 1/4, while Y5V is replaced by the X7R and X5R gradually.

Multilayer ceramic capacitor can be used in Consumer Electronics, Automotive, Industrial Machinery, Defense, etc. The Consumer Electronics is the main use of the Multilayer ceramic capacitor with the share of about 70% in the world. Consumption of MLCC for a Laptop is about 400-800 pcs, for Smartphone is 200-400 pcs and for LED/LCD TV is about 500-800 pcs.

China, Taiwan, Japan and Korea are now the key producers of Multilayer ceramic capacitor in the world. China and Japan are the two largest consumption countries of Multilayer ceramic capacitor products in the world in the past few years while the Chinese market share increased to about 35% in 2016 from 30% in 2012, China and Japan will keep the leading position in the next few years. Korea, Taiwan, Singapore, Vietnam and Mexico took up about 1/4 the world in 2016.



The Murata, Samsung Electro, TDK Corp, Taiyo Yuden are most leading companies to produce high capacity (1uF-100uF) products, and Murata, Kyocera, Yageo, Walsin, Fenghua, EYANG is leaders of low capacity (



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