DID YOU KNOW?

HOW TO AVOID OVER-SPECIFYING DURING COMPONENT SHORTAGES

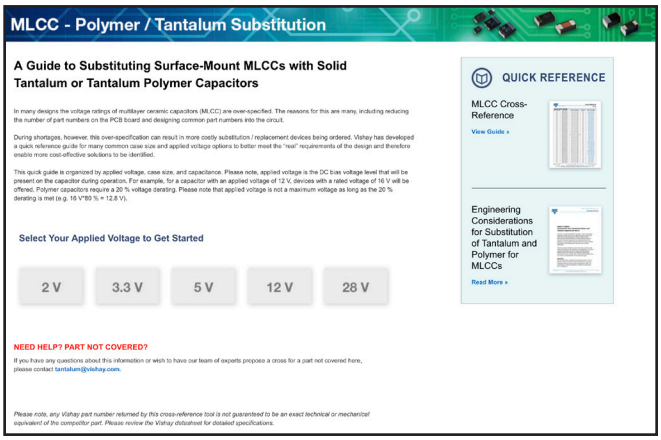
A New MLCC Replacement Guide from Vishay

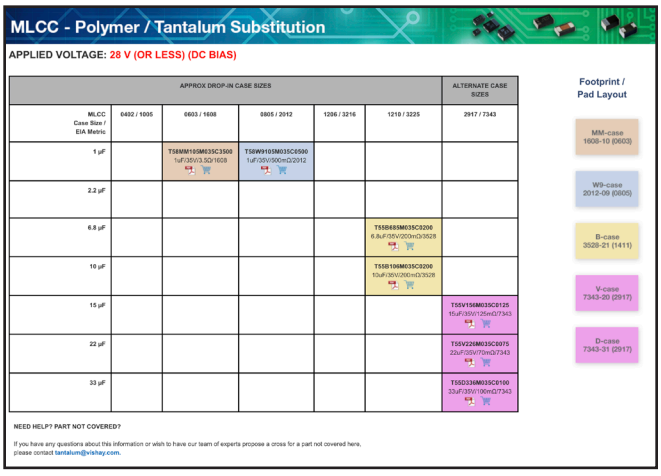
In many designs the voltage ratings of multilayer ceramic capacitors (MLCC) are over-specified. The reasons for this are many, including reducing the number of part numbers on the PCB board and designing common part numbers into the circuit.

During shortages, however, this over-specification can result in more costly substitution / replacement devices being ordered. Vishay has developed a quick reference guide for many common case size and applied voltage options to better meet the “real” requirements of the design and therefore enable more cost-effective solutions to be identified.

On this quick guide webpage, the information is organized by applied voltage, case size, and capacitance. Please note, applied voltage is the DC bias voltage level that will be present on the capacitor during operation. For example, for a capacitor with an applied voltage of 12 V, devices with a rated voltage of 16 V will be offered. Polymer capacitors require a 20 % voltage derating. Please note that applied voltage is not a maximum voltage as long as the 20 % derating is met (e.g. 16 V*80 % = 12.8 V).

[Go to the MLCC - Polymer Replacement Guide]





MLCC = 298D or T55