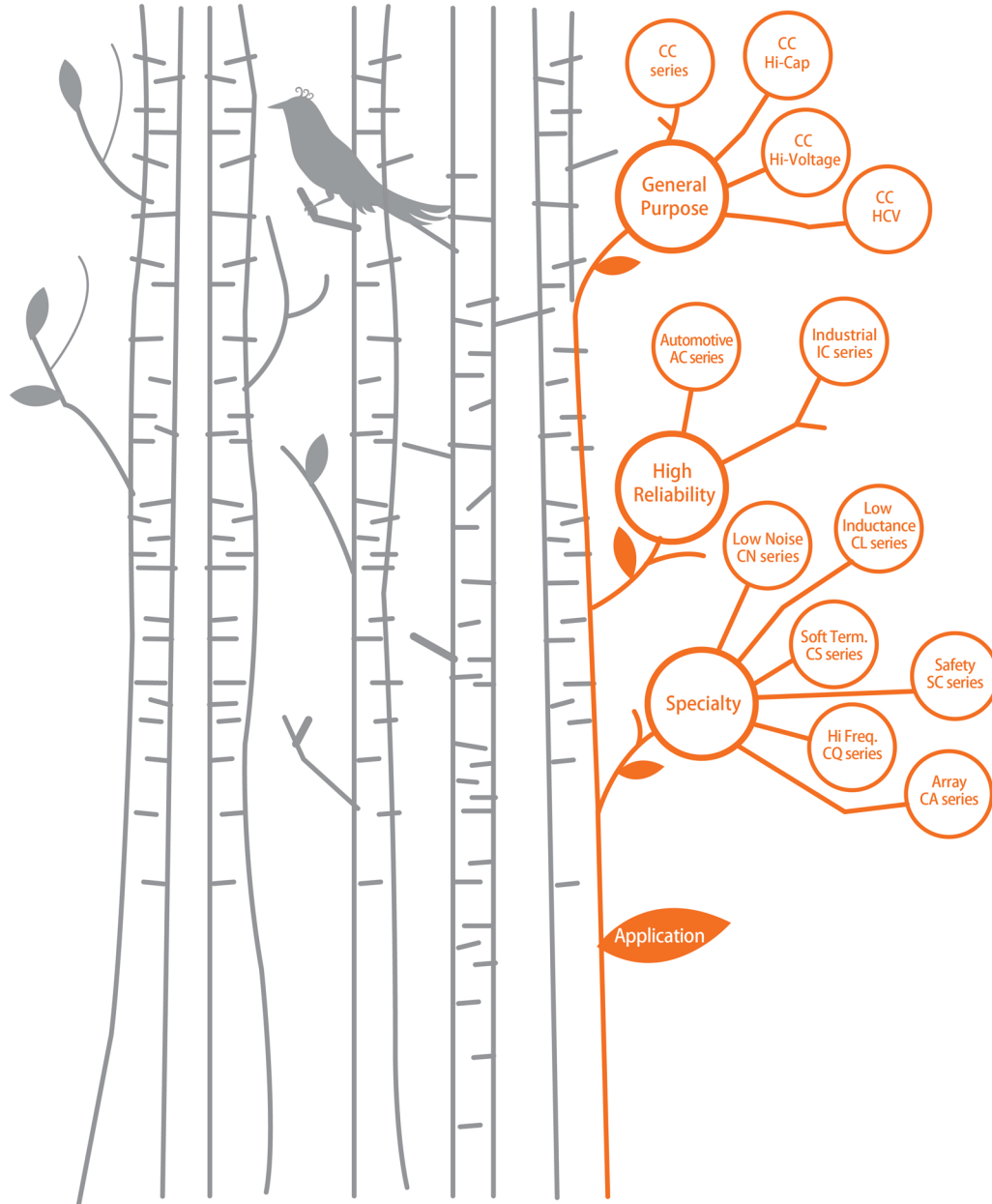


# MLCC



## MLCC Introduction

Yageo MLCCs provide outstanding performance, reliability, and cost advantages for circuit designers. Yageo offers many types of Multi-Layer Ceramic Capacitors (MLCCs), including commodity, high capacitance, high voltage, soft termination, and high frequency. Among these, high capacitance MLCCs are high-end products in terms of capacitance to accommodate trends in the electronic industry towards convergence, multi-functionality, and miniaturization.

# Yageo's MLCC Product Line-up

## General Purpose

### CC Series

CC-Class I and Class II ( $\geq 01005$ )



- Suitable for all general purpose
- Low ESR and self-heating
- Stable capacitance and low impedance over wide frequency range

### CC-HC Series

High Capacitance



- High capacitance
- Very low ESR and ESL
- Low self-heating

### CC-HCV Series

High CV

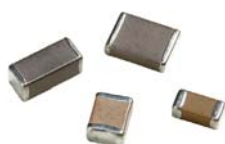


- High capacitance & high voltage
- High energy density
- Applied in lighting, power, LCD.

## General Purpose

### CC-HV Series

High Voltage



- Operates at high voltage
- Wide case size available
- Applied in power supply, lighting.

## High Reliability

### AC Series

Automotive Grade



- AEC-Q200 qualified and PPAP ready
- ISO/TS16949 certified
- Board Flex  $\geq 2\text{mm}$
- 100% AOI

### IC Series

Industrial Grade



- Sustain biased load humidity with  $85^{\circ}\text{C} / 85\% \text{RH}$
- 100% AOI & SPC monitor
- Good for harsh outdoor environment applications

## Specialty

### CL Series

Low Inductance



- Low ESL capacitor
- For high frequency decoupling applications

### CS Series

Soft Termination



- Good resistance to bending
- Good resistance to mechanical vibration
- Good resistance to thermal shock

### CQ Series

High Frequency



- HiQ and low ESR in VHF, UHF and microwave frequency bands
- BME process with copper inner electrodes
- Tight tolerance (min.  $\pm 0.05\text{pF}$ )

## Specialty

### CA Series

Array MLCC



- Extremely compact
- Time saving mounting process
- Fewer solder joints required
- Simpler PCB design

### CN Series

Low Acoustic Noise



- Dielectric improvement for excellent DC bias characteristics
- Effectively restrains acoustic noise

### SC Series

Safety Certified



- Capable of operating at high voltage levels
- Surge protection
- TUV/ UL certificate