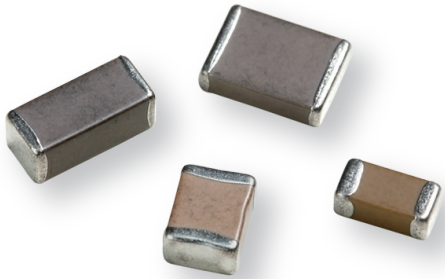




# High Voltage MLCCs for highly efficient power system

**High voltage, high reliability and excellent high frequency characteristics**



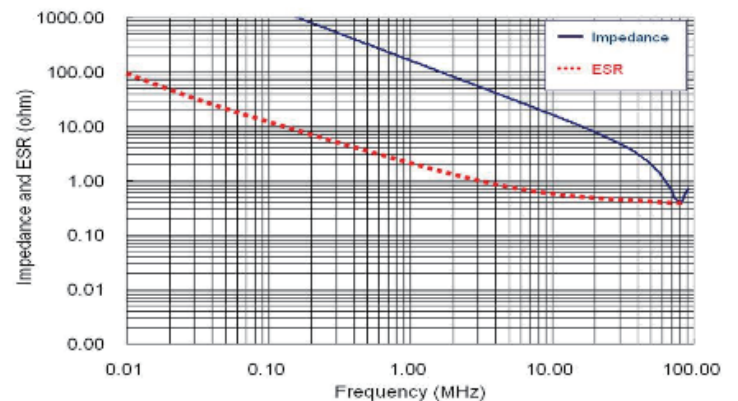
Yageo recently extended its high voltage (100V to 3000V rated voltage) MLCC range. It now covers both class I NPO and class II X7R with capacitance up to 2.2 micro farad and case sizes (inch) 0201 to 1812. By completing this range extension, Yageo becomes one of the top MLCC manufacturers to supply high voltage MLCCs.

This high voltage MLCC range has been developed mainly for power systems widely applied not only in industrial facilities but also in consumer

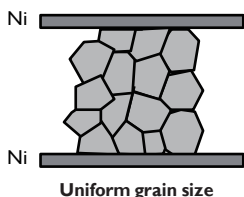
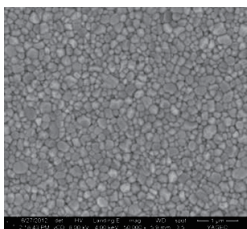
equipment which use switched-mode power supplies, DC-to-DC converters, and DC-to-AC inverters, etc.

Yageo's high voltage MLCCs introduce the most advanced material and processing techniques, the well controlled and nearly defect free microstructure ensures the voltage breakdowns far above the application requirements. In addition to the high voltage performances needed for operating in high voltage system, this MLCC series also possesses high reliability, large capacitance, miniaturization, and excellent high frequency characteristics which meet the demands for a compact and highly efficient power conversion system.

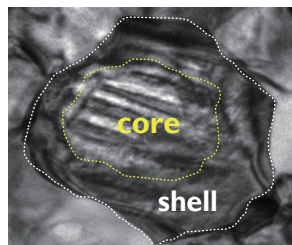
## Excellent Frequency Characteristics



## Well Controlled Microstructure



## Well Controlled Core-Shell Structure in X7R



Detail Info.

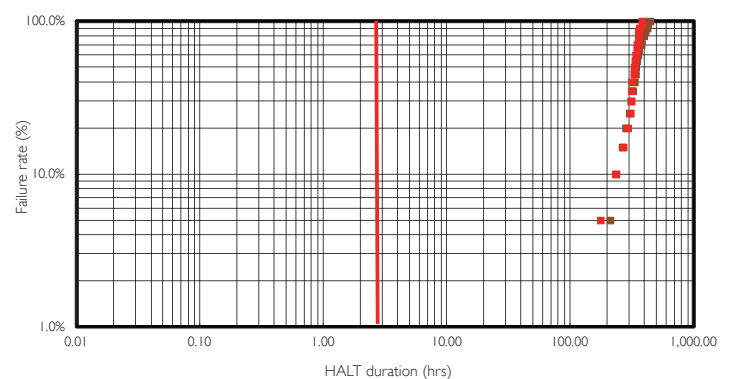
Datasheet  
(1-3KV)



Datasheet  
(100-630V)



## High Reliability Performance



# High Voltage MLCCs for highly efficient power system

## Features

- Operates at high voltage
- Wide case size available
- High reliability with no polarity
- Low ESR and ESL
- Low leakage current

## Benefits

- Suited to the trends of power systems toward smaller equipment with lower weight, cost, and power usage, plus lower EMI levels to satisfy modern EMC requirements
- Offer not only greater resistance to static electricity and surge current, but also resistance to mechanical stress, they also offer excellent high-frequency performance, lower ESR, and stability against temperature variations

## Applications

- Power supply, adapter, charger
- DC/DC converters
- Switching circuit
- TV/Monitor backlight inverters
- Computer (LAN/WAN interface)
- Networking
- HID lighting
- EMI suppression
- High frequency snubber

### Yageo's HV Series Application Map

