

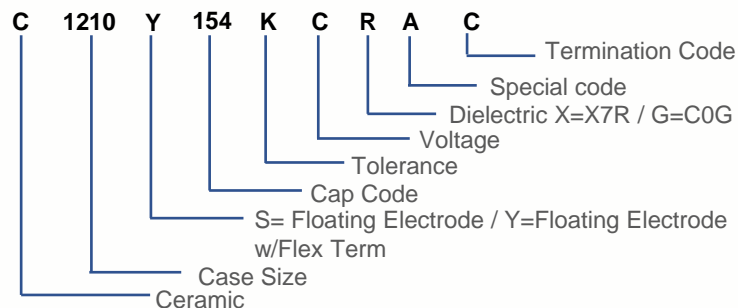
## Overview

KEMET's Floating Electrode High Voltage with Standard (FE-CAP) or Flexible Termination capacitor (FF-CAP) combines two existing KEMET technologies— Floating Electrode and Flexible Termination. The floating electrode component utilizes a cascading / serial electrode design configured to form multiple capacitors in series within a single monolithic structure.

## Benefits

- Automotive and Commercial grade
- Low ESR & ESL
- High ripple current capability
- Industry leading CV values
- Non-polar device
- Lead (Pb)-Free, RoHS and REACH compliant

## Part Number System



## High Voltage, Floating Electrode Design

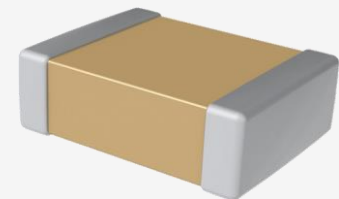
# High Voltage Floating Electrode Design MLCC Dielectric - X7R, C0G

## Electrical Characteristics

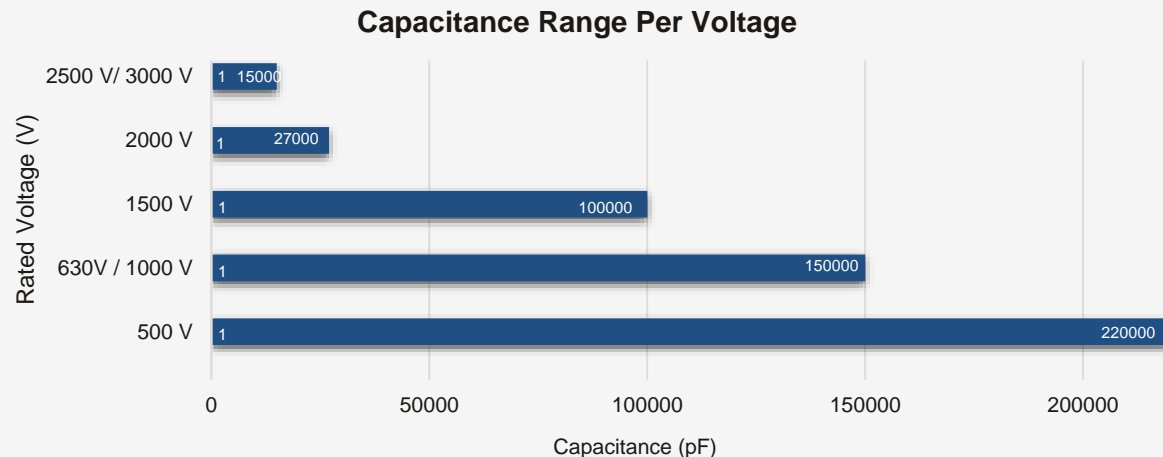
- Operating temperature: -55°C to 125°C
- Capacitance offerings: 1 pF to 220 nF
- DC voltage ratings: 500V, 630V, 1 kV, 1.5 kV, 2 kV, 2.5 kV and 3 kV
- Capacitance change: X7R±15%/C0G ±30ppm/ °C

## Features

- Floating Electrode/fail open design
- Exceptional performance at high frequencies
- C0G: No capacitance decay with time



## Characteristics



## Applications

### X7R

- EV/HEV (drive systems, charging)
- LCD fluorescent backlight ballasts
- Power converters
- LAN/WAN interface
- Voltage multiplier circuits
- High voltage decoupling

### C0G

- EV/HEV (drive systems, charging)
- High frequency power converters
- Wide bandgap (WBG), silicon carbide (SiC) and gallium nitride (GaN) systems
- Snubber (high dV/dT)

In process