

# R4Y Y1 High Temperature | Harsh Environment

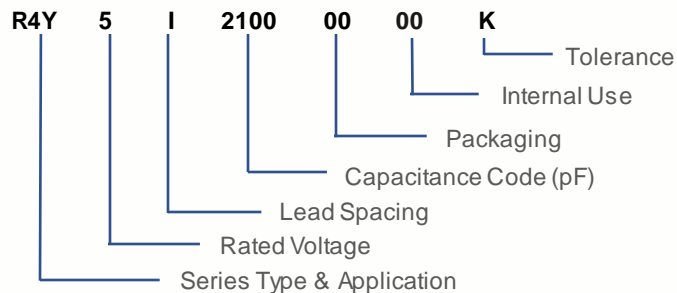
## Overview

R4Y is a radial metallized polypropylene Y1 certified EMI suppression capacitor, featuring high a operating temperature and a long lifetime in harsh environments.

## Benefits

- Harsh Environment Capability
  - THB IIB according to IEC 60384-14 (85°C | 85% R.H. | 500 hrs at rated AC voltage)
- Long lifetime at high temperatures
  - 85°C | 100 khr / 125°C | 2khr at Vrac
- AEC-Q200
- Miniaturized dimension and wide capacitance range

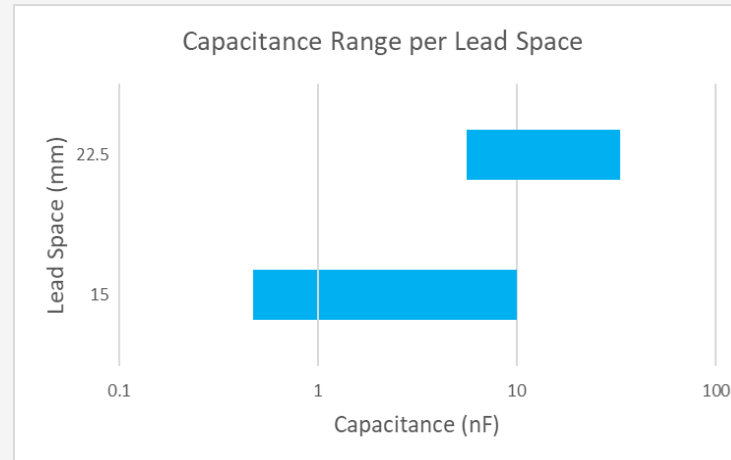
## Part Number System



## Electrical Characteristics

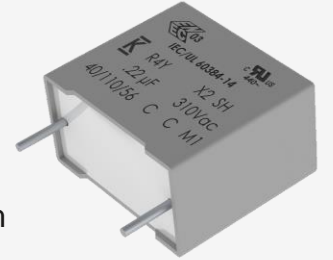
Capacitance Range: 0.47 nF – 33 nF  
 Rated AC Voltage: 500 Vac (50/60 Hz)  
 - max 750 Vac 1,000 hrs at 125°C  
 Recommended DC voltage: 1,500 Vdc  
 - max 3,000 Vdc 1,000 hrs 85°C

## Characteristics



## Features

AEC-Q200  
 Lead spacing: 15.0 mm – 22.5 mm  
 RoHS and lead free

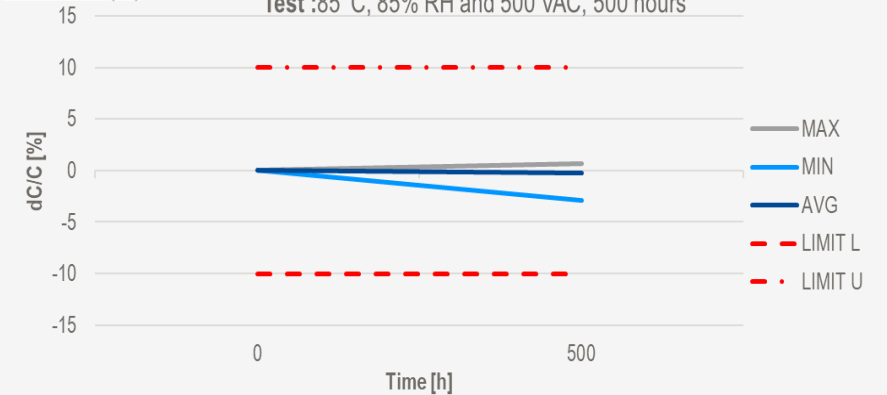


## Harsh Environment Accelerated Life Test 500 VAC 85 °C | 85% R.H.



a YAGEO company

Capacitance drift plot for R4Y  
 Test :85°C, 85% RH and 500 VAC, 500 hours



## Applications

- AC Input/Output EMI filtering
  - EV charging station
  - Industrial
- HVDC Filtering in Automotive
  - OBC
  - DC/DC convertors
  - E-Compressors
  - HV Heaters
  - Traction Inverters

<https://www.kemet.com/en/us/capacitors/film/safety.htm?40=133>