

# R53 X2 For Harsh Environment

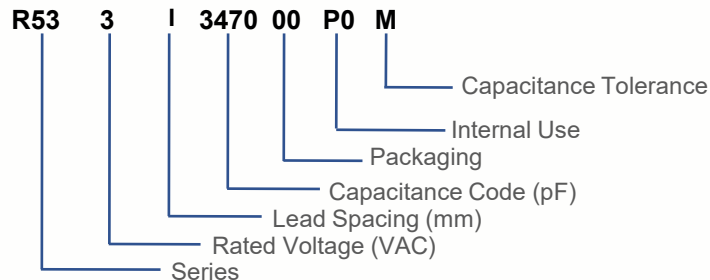
## Overview

R53 series is ideal for harsh environments and is AEC-Q200 qualified. Due to its miniaturized dimensions, this series is an excellent option in space-constrained applications.

## Benefits

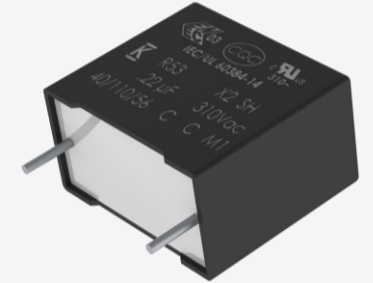
- X2 CLASS (IEC 60384-14)
- THB Grade IIIB: 85°C, 85% R.H., 1,000h at 310 V<sub>AC</sub> and 560 V<sub>DC</sub> according to IEC 60384-14
- AEC-Q200 qualified
- Approvals: ENEC, UL, cUL, CQC
- Low Halogen content according to JS709C

## Part Number System

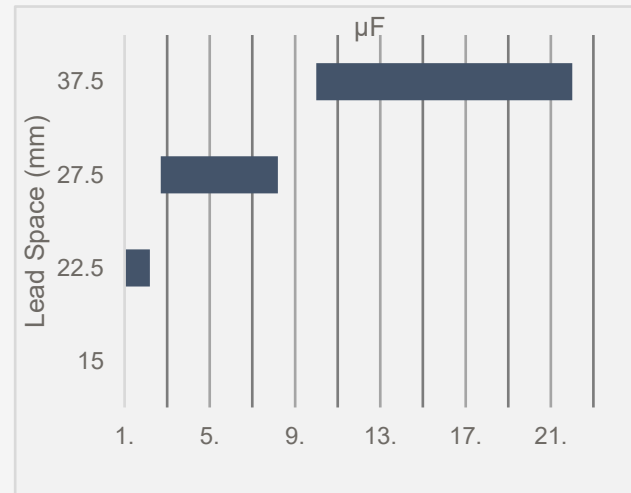


## Electrical Characteristics

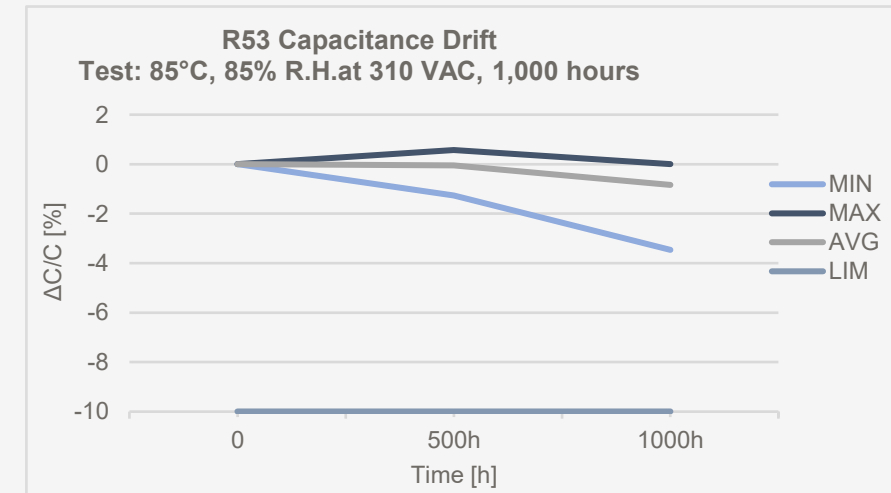
Capacitance Range: 0.1  $\mu\text{F}$  – 22  $\mu\text{F}$   
 Rated Voltage: 310 V<sub>AC</sub>, 50 / 60 Hz  
 Operating Temperature Range: -40°C to +110°C  
 Recommended DC Voltage:  $\leq 630$  V<sub>DC</sub>



## Capacitance Range vs. Lead Space



## Harsh Environment Accelerated Life Test



## Applications

- EMI Filters
  - Across the mains AC and DC
- In series with the mains