

# Supercapacitors Automotive Grade Series

## Overview

Supercapacitors Automotive Grade Series are intended for power back-up in automotive applications. Enhancements to the design and material upgrades have been introduced to deliver 1,000 hours at 85°C/85% RH rated voltage and to meet automotive grade requirements with operational temperature range of -40 to 85°C or 105°C.

## Benefits

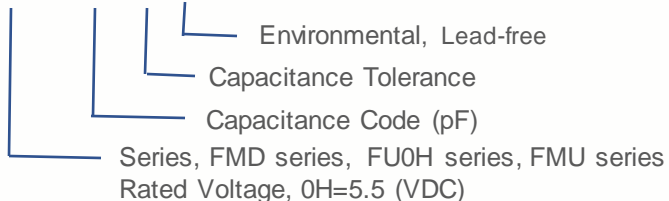
- Meets automotive grade tests and requirements
- Wide range of operating temperatures (FMD/FU0H series: -40 - 85°C, FMU series: -40 - 105°C)
- Maximum operating voltage of 5.5VDC
- Maintenance free
- High resistance to liquid leakages
- Lead-free and RoHS compliant
- Long lifetime
- High reliability
- Suitable for harsh environments

## Part Number System

FMD0H 334 Z F

FU0H 105 Z F

FMU0H 334 Z F



## Electrical Characteristics

FMD0H334ZF 5.5V 0.33F ESR 25Ω

FU0H105ZF 5.5V 1F ESR 10Ω

FMU0H334ZF 5.5V 0.33F ESR 25Ω

## Features

- 85°C/85% rated voltage humidity bias up to 1,000 hours
- 85°C rated voltage operational life up to 1,000 hours (FMD series)
- 85°C rated voltage operational life up to 4,000 hours (FU0H series)
- 105°C rated voltage operational life up to 1,000 hours (FMU series)
- Durability against vibration and mechanical shock

## Applications

- Automotive
- ADAS
- IV
- Autonomous driving
- Central gateway ECUs
- Medical
- Industrial
- Machinery



FMD0H334ZF

FU0H105ZF

FMU0H334ZF

## Estimated Lifetime

Temp. (°C)	Estimated Lifetime at 5.5VDC (hours)		
	FMD0H334ZF	FU0H105ZF	FMU0H334ZF
25	299,794	529,633	576,000
45	74,948	132,408	144,000
65	18,737	33,102	36,000

<https://www.kemet.com/en/us/capacitors/supercapacitors.html>