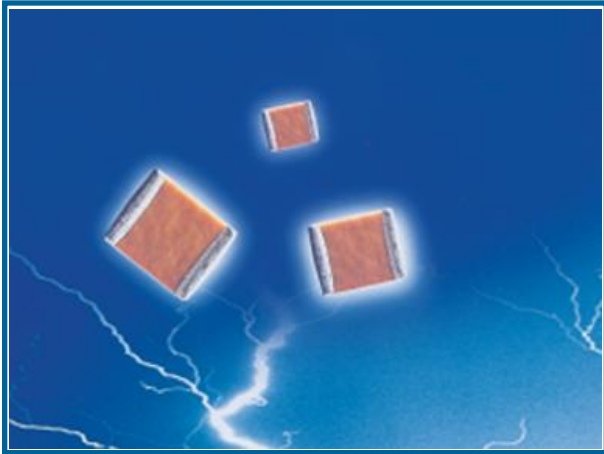


ESD-Safe™ MLCC



[AVX Website Link to Datasheet](#)

[Datasheet Website Link](#)

Basic Overview

ESD-Safe™ capacitors are utilized for ESD protection of I/O gates. ESD caps are used on nearly every pin of an automotive module. Their use at that point averages the voltage that the wiring harness can be charged to and the module voltage. The small footprint makes them ideal for high density electronic devices. Capacitance selection is a trade off. Large capacitance values provide better ESD protection, however a larger capacitance could corrupt the datastream.

Positioning

The ESD-Safe™ series is an enhanced MLC capacitor developed and designed specifically for general ESD protection. (ESD = Electro Static discharge)

Applications

- General ESD protection of I/O gates
- Automotive modules. ESD problems are sometimes encountered during the initial assembly/mating to the harness.

Unique Features

- Size: 0603 – 1206
- Temperature range: -55°C to +125°C
- Dielectric: X7R

Top Selling Points

- Small Footprint
- ESD Withstanding
- Lead Free
- Flexitem and Automotive qualified options

- Voltage: 25 – 100Vdc
- Capacitance: 1nF – 2.2µF
- ESD Rating: 18kV – 30kV

ESD-Safe MLCC



How to Order

<u>ESD</u>	<u>5</u>	<u>5</u>	<u>C</u>	<u>104</u>	<u>K</u>	<u>4</u>	<u>Z</u>	<u>2</u>	<u>A</u>	-	<u>18</u>
Product type	Case Size	Voltage	Dielectric	Capacitance Code (In pF)	Capacitance Tolerance	Failure Rate	Terminations	Packaging	Special Code		ESD Rating
ESD Application	0803 = 3 0805 = 5 1206 = 6	25V = 3 50V = 5 100V = 1	X7R = C	2 Sig. Digits + Number of Zeros e.g. 10µF = 106	J = ±5% K = ±10% M = ±20%	A = Commercial 4 = Automotive	T = 100% Tin Z = FLEXITERM™	2 = 7" Reel 4 = 13" Reel	A = Std. Product		18 = 18kV 20 = 20kV 22 = 22kV 24 = 24kV 26 = 26kV 28 = 28kV 30 = 30kV

FAQ's

Please refer to FAQ document.

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