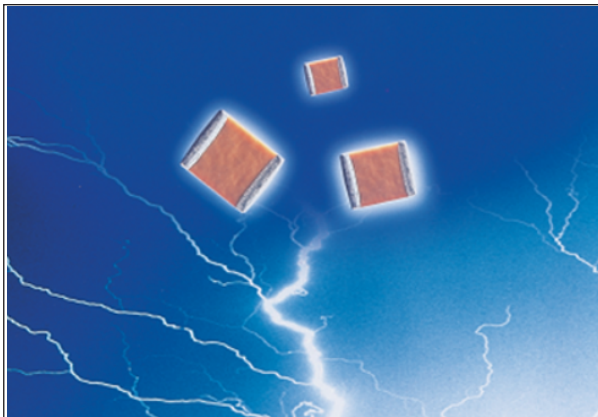


# ESD-Safe™ MLC Chips



## ESD Withstanding MLC Capacitor



The ESD-Safe™ series is an enhanced MLC capacitor developed and designed specifically to be used in ESD (Electro Static Discharge) prone applications.

ESD-Safe™ capacitors are commonly utilized on the I/O pins of modules and systems connected to a wiring harness.

These devices average the electrical potential of two objects due to ESD charging.

ESD-Safe™ capacitors are offered in a wide capacitance value range so that the correct capacitance can be selected to minimize distortion on the circuit. ESD capacitors provide a method to integrate voltage differentials in low level transient fields.

### HOW TO ORDER

<b>ESD</b>	<b>5</b>	<b>5</b>	<b>C</b>	<b>104</b>	<b>K</b>	<b>4</b>	<b>Z</b>	<b>2</b>	<b>A</b>	<b>-</b>	<b>18</b>
<b>Product type</b> ESD Application	<b>Case Size</b> 0603 = 3 0805 = 5 1206 = 6	<b>Voltage</b> 25V = 3 50V = 5 100V = 1	<b>Dielectric</b> X7R = C	<b>Capacitance Code (In pF)</b> 2 Sig. Digits + Number of Zeros e.g. 10µF = 106	<b>Capacitance Tolerance</b> J = ±5% K = ±10% M = ±20%	<b>Failure Rate</b> A = Commercial 4 = Automotive	<b>Terminations</b> T = 100% Tin Z = FLEXITERM™	<b>Packaging</b> 2 = 7" Reel 4 = 13" Reel	<b>Special Code</b> A = Std. Product		<b>ESD Rating</b> 18 = 18kV 20 = 20kV 22 = 22kV 24 = 24kV 26 = 26kV 28 = 28kV 30 = 30kV

30 = 30kV

### ESDSAFE X7R RANGE

Capacitance		0603		0805			1206		
Code	Value	50V	100V	25V	50V	100V	25V	50V	100V
472	4.7 (nF)	18kV	18kV	18kV	18kV	18kV	20kV	20kV	20kV
682	6.8	18kV	18kV	18kV	18kV	18kV	20kV	20kV	20kV
103	10	18kV	18kV	18kV	18kV	18kV	20kV	20kV	20kV
153	15	20kV		20kV	20kV	20kV	22kV	22kV	22kV
223	22	20kV		22kV	22kV	22kV	24kV	24kV	24kV
333	33	20kV		22kV	22kV	22kV	24kV	24kV	24kV
473	47	22kV		22kV	22kV	22kV	26kV	26kV	26kV
683	68	22kV		24kV	24kV	24kV	26kV	26kV	26kV
104	100	24kV		24kV	24kV	24kV	26kV	26kV	26kV
154	150			24kV	24kV		28kV	28kV	28kV
224	220			26kV	26kV		28kV	28kV	28kV
334	330			26kV	26kV		28kV	28kV	28kV
474	470			26kV	26kV		28kV	28kV	28kV
684	680			26kV			28kV	28kV	
105	1 (µF)			26kV			28kV	28kV	
155	1.5						30kV		
225	2.2						30kV		

