

## EMI-KIT-XY Sample Kit Safety Capacitors Solutions


**FEATURES**

- X and Y solutions
- AEC-Q200 qualified solutions
- High capacitance solutions
- Surface-mount solutions
- High reliability MLCC inserts with wet build process

The engineering sample kit contains a total of 48 different safety capacitors, which differ in technology, classification, capacitance value, dielectric, and rated voltage.

SPECIFICATIONS		
Part number	EMI-KIT-XY	
Capacitors type	Leaded / SMD ceramic and film	
Categories of X and Y capacitors	X1 / Y1, X1 / Y2, X1, X2, and Y2	
Capacitance range	100 pF to 3.3 $\mu$ F	
Tolerances	Refer to below table	
Operating temperature	Leaded / SMD ceramic	Film
	-55 °C to +125 °C	-55 °C to +110 °C

**Note**

- The products are specified by their underlying datasheets

CAPACITANCE VALUE LIST								
PART NUMBER	TECHNOLOGY	CATEGORY	CAPACITANCE (pF)	VOLTAGE	TOLERANCE (%)	DIELECTRIC	LEAD SPACING (mm)	# OF PCS IN THE BOX
<a href="#">VY1471M29Y5UC63V0</a>	Leaded ceramic	X1 / Y1	470	X: 760 V <sub>AC</sub> Y: 500 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">VY1681M29Y5UC63V0</a>	Leaded ceramic	X1 / Y1	680	X: 760 V <sub>AC</sub> Y: 500 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">VY1102M31Y5UC63V0</a>	Leaded ceramic	X1 / Y1	1000	X: 760 V <sub>AC</sub> Y: 500 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">VY1152M35Y5UC63V0</a>	Leaded ceramic	X1 / Y1	1500	X: 760 V <sub>AC</sub> Y: 500 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">VY1222M43Y5UC63V0</a>	Leaded ceramic	X1 / Y1	2200	X: 760 V <sub>AC</sub> Y: 500 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">VY1332M51Y5UC63V0</a>	Leaded ceramic	X1 / Y1	3300	X: 760 V <sub>AC</sub> Y: 500 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">VY1472M61Y5UC63V0</a>	Leaded ceramic	X1 / Y1	4700	X: 760 V <sub>AC</sub> Y: 500 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">AY2681M29Y5US63V0</a>	Leaded ceramic	X1 / Y2	6800	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">AY2102M29Y5US63V0</a>	Leaded ceramic	X1 / Y2	10 000	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">AY2152M31Y5US63V0</a>	Leaded ceramic	X1 / Y2	1500	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">AY2222M35Y5US63V0</a>	Leaded ceramic	X1 / Y2	2200	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5U	10	10



CAPACITANCE VALUE LIST								
PART NUMBER	TECHNOLOGY	CATEGORY	CAPACITANCE (pF)	VOLTAGE	TOLERANCE (%)	DIELECTRIC	LEAD SPACING (mm)	# OF PCS IN THE BOX
<a href="#">AY2332M41Y5US63V0</a>	Leaded ceramic	X1 / Y2	3300	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">AY2392M43Y5US63V0</a>	Leaded ceramic	X1 / Y2	3900	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">AY2472M49Y5US63V0</a>	Leaded ceramic	X1 / Y2	4700	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5U	10	10
<a href="#">440LS10-R</a>	Leaded ceramic	X1 / Y1	10 000	X: 760 V <sub>AC</sub> Y: 500 V <sub>AC</sub>	± 20	Y5U	10	1
<a href="#">440LS20-R</a>	Leaded ceramic	X1 / Y1	20 000	X: 760 V <sub>AC</sub> Y: 500 V <sub>AC</sub>	± 20	Y5U	10	1
<a href="#">VY2102M29Y5VS63V0</a>	Leaded ceramic	X1 / Y2	1000	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5V	10	10
<a href="#">VY2152M29Y5VS63V0</a>	Leaded ceramic	X1 / Y2	1500	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5V	10	10
<a href="#">VY2222M31Y5VS63V0</a>	Leaded ceramic	X1 / Y2	2200	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5V	10	10
<a href="#">VY2332M35Y5VS63V0</a>	Leaded ceramic	X1 / Y2	3300	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5V	10	10
<a href="#">VY2472M41Y5VS63V0</a>	Leaded ceramic	X1 / Y2	4700	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5V	10	10
<a href="#">VY2103M59Y5VS63V0</a>	Leaded ceramic	X1 / Y2	10 000	X: 440 V <sub>AC</sub> Y: 300 V <sub>AC</sub>	± 20	Y5V	10	10
<a href="#">VJ2008A101JXUSTX1</a>	SMD ceramic	X1 / Y2	100	250 V <sub>AC</sub>	± 5	C0G	SMD 2008	5
<a href="#">VJ2008A221JXUSTX1</a>	SMD ceramic	X1 / Y2	220	250 V <sub>AC</sub>	± 5	C0G	SMD 2008	5
<a href="#">VJ2008Y471KXUSTX1</a>	SMD ceramic	X1 / Y2	470	250 V <sub>AC</sub>	± 10	X7R	SMD 2008	5
<a href="#">VJ2008Y102KXUSTX1</a>	SMD ceramic	X1 / Y2	1000	250 V <sub>AC</sub>	± 10	X7R	SMD 2008	5
<a href="#">VJ2220A102JXUSTX1</a>	SMD ceramic	X1 / Y2	1000	250 V <sub>AC</sub>	± 5	C0G	SMD 2220	5
<a href="#">VJ2220Y102KXUSTX1</a>	SMD ceramic	X1 / Y2	1000	250 V <sub>AC</sub>	± 10	X7R	SMD 2220	5
<a href="#">VJ2220Y222KXUSTX1</a>	SMD ceramic	X1 / Y2	2200	250 V <sub>AC</sub>	± 10	X7R	SMD 2220	5
<a href="#">VJ2220Y332KXUSTX1</a>	SMD ceramic	X1 / Y2	3300	250 V <sub>AC</sub>	± 10	X7R	SMD 2220	5
<a href="#">VJ2220Y472KXUSTX1</a>	SMD ceramic	X1 / Y2	4700	250 V <sub>AC</sub>	± 10	X7R	SMD 2220	5
<a href="#">VJ2220Y103KXUSTX2</a>	SMD ceramic	X2	10 000	250 V <sub>AC</sub>	± 10	X7R	SMD 2220	5
<a href="#">BFC233810473</a>	Film	X1	47 000	440 V <sub>AC</sub>	± 20	Polypropylene	15	2
<a href="#">BFC233812224</a>	Film	X1	220 000	440 V <sub>AC</sub>	± 20	Polypropylene	22.5	5
<a href="#">BFC233810105</a>	Film	X1	1 000 000	440 V <sub>AC</sub>	± 20	Polypropylene	27.5	2
<a href="#">BFC233921104</a>	Film	X2	100 000	310 V <sub>AC</sub>	± 20	Polypropylene	15	10
<a href="#">BFC233920224</a>	Film	X2	220 000	310 V <sub>AC</sub>	± 20	Polypropylene	15	10
<a href="#">BFC233910334</a>	Film	X2	330 000	310 V <sub>AC</sub>	± 20	Polypropylene	15	9
<a href="#">BFC233910474</a>	Film	X2	470 000	310 V <sub>AC</sub>	± 20	Polypropylene	15	5
<a href="#">BFC233920105</a>	Film	X2	1 000 000	310 V <sub>AC</sub>	± 20	Polypropylene	22.5	4
<a href="#">BFC233912225</a>	Film	X2	2 200 000	310 V <sub>AC</sub>	± 20	Polypropylene	27.5	2
<a href="#">BFC233920335</a>	Film	X2	3 300 000	310 V <sub>AC</sub>	± 20	Polypropylene	27.5	1
<a href="#">BFC233860272</a>	Film	Y2	2700	300 V <sub>AC</sub>	± 20	Polypropylene	7.5	10
<a href="#">BFC233868392</a>	Film	Y2	1000	300 V <sub>AC</sub>	± 20	Polypropylene	10	10
<a href="#">BFC233860153</a>	Film	Y2	15 000	300 V <sub>AC</sub>	± 20	Polypropylene	15	8
<a href="#">BFC233860104</a>	Film	Y2	100 000	300 V <sub>AC</sub>	± 20	Polypropylene	22.5	4
<a href="#">BFC233860224</a>	Film	Y2	220 000	300 V <sub>AC</sub>	± 20	Polypropylene	27.5	4
<a href="#">BFC233860474</a>	Film	Y2	470 000	300 V <sub>AC</sub>	± 20	Polypropylene	27.5	2