

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 μ 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
VY1471M29Y5UC63V0	Leaded ceramic	X1 / Y1	470	X: 760 V _{AC} Y: 500 V _{AC}	± 20	Y5U	10	10
VY1681M29Y5UC63V0	Leaded ceramic	X1 / Y1	680	X: 760 V _{AC} Y: 500 V _{AC}	± 20	Y5U	10	10
VY1102M31Y5UC63V0	Leaded ceramic	X1 / Y1	1000	X: 760 V _{AC} Y: 500 V _{AC}	± 20	Y5U	10	10
VY1152M35Y5UC63V0	Leaded ceramic	X1 / Y1	1500	X: 760 V _{AC} Y: 500 V _{AC}	± 20	Y5U	10	10
VY1222M43Y5UC63V0	Leaded ceramic	X1 / Y1	2200	X: 760 V _{AC} Y: 500 V _{AC}	± 20	Y5U	10	10
VY1332M51Y5UC63V0	Leaded ceramic	X1 / Y1	3300	X: 760 V _{AC} Y: 500 V _{AC}	± 20	Y5U	10	10
VY1472M61Y5UC63V0	Leaded ceramic	X1 / Y1	4700	X: 760 V _{AC} Y: 500 V _{AC}	± 20	Y5U	10	10
AY2681M29Y5US63V0	Leaded ceramic	X1 / Y2	6800	X: 440 V _{AC} Y: 300 V _{AC}	± 20	Y5U	10	10
AY2102M29Y5US63V0	Leaded ceramic	X1 / Y2	10 000	X: 440 V _{AC} Y: 300 V _{AC}	± 20	Y5U	10	10
AY2152M31Y5US63V0	Leaded ceramic	X1 / Y2	1500	X: 440 V _{AC} Y: 300 V _{AC}	± 20	Y5U	10	10
AY2222M35Y5US63V0	Leaded ceramic	X1 / Y2	2200	X: 440 V _{AC} Y: 300 V _{AC}	± 20	Y5U	10	10



CAPACITANCE VALUE LIST

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

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