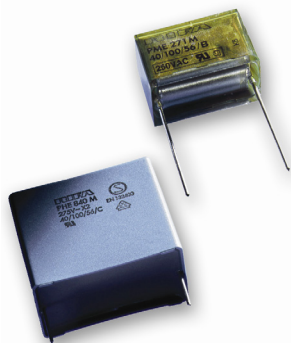


Design a KEMET X or Y Capacitor into Your Next Project



KEMET is offering this EMI (or X and Y) capacitor kit to meet your needs for testing and design with a variety of common capacitor values. The list of parts included may be found below. Quantity varies per part number according to physical size. On the back of this sheet is a quick reference guide to the complete line of KEMET EMI capacitors.

EMI (X and Y) Capacitor Engineering Kit, Part Number FLP ENG KIT151				
Agency Class	Cap. Value	Rated AC Voltage	Pitch, mm	Part Number
X2	10nF ±20%	275 (UL 280)	7.5	PHE840MK5100MK01
X2	10nF ±20%	275 (UL 280)	10	PHE840MA5100MA01
X2	22nF ±20%	275 (UL 280)	7.5	PHE840MK5220MK03
X2	22nF ±20%	275 (UL 280)	10	PHE840MA5220MA01
X2	33nF ±20%	275 (UL 280)	7.5	PHE840MK5330MK03
X2	33nF ±20%	275 (UL 280)	10	PHE840MA5330MA01
X2	47nF ±20%	275 (UL 280)	10	PHE840MA5470MA02
X2	100nF ±20%	275 (UL 280)	15	PHE840MB6100MB05
X2	220nF ±20%	275 (UL 280)	15	PHE840MX6220MB06
X2	680nF ±20%	275 (UL 280)	22.5	PHE840MY6680MD15
X2	1.0uF ±20%	275 (UL 280)	22.5	PHE840MY7100MD16
X2	1.0uF ±20%	275 (UL 280)	27.5	PHE840MZ7100MF11
X2	2.2uF ±20%	275 (UL 280)	27.5	PHE840MZ7220MF14
Y2	1.0nF ±20%	300	10	PHE850EA4100MA06
Y2	2.2nF ±20%	300	10	PHE850EA4220MA01
Y2	3.3nF ±20%	300	10	PHE850EA4330MA02
Y2	4.7nF ±20%	300	10	PHE850EA4470MA03
Y2	10nF ±20%	300	15	PHE850EB5100MB04
Y2	47nF ±20%	300	15	PHE850EB5470MB14
Y2	100nF ±20%	300	22.5	PHE850ED6100MD18
Y2	220nF ±20%	300	22.5	PHE850ED6220MD20

AC Line EMI Capacitors (X and Y Capacitors)

Benefits & Advantages

- X2 capacitors to 10 μ F, Y2 to 1 μ F
- Safe failure mode
- Models up to 125°C
- Models for every industrial voltage
- Easy-To-Buy-From Order Entry & Philosophy
- Stable temperature characteristics
- Pb free/RoHS compliant
- Halogen free on request
- Polypropylene caps for 400/440Hz

KEMET Products

COMMON X CAPACITORS								
VAC	Series	Class	Max. Temp °C	C-Value Range Min. μ F Max. μ F		Dielectric	Self Healing?	Comments
275	PME271M	X2	110	0.001	0.6	Impreg. Paper	Yes	Best performance & safety.
275 & 277	R46 PHE840M	X2	110 & 125 105	0.01	10	Polypropylene	Yes	Small size, cost effective, full agencies approval
300	PME217E	X1	110	0.01	0.22	Impreg. Paper	Yes	Best performance & safety.
300	R46(300V) PHE840E	X2	110 105	0.01	10	Polypropylene	Yes	Small size, cost effective, full agencies approval
330	PHE841 R49	X1	100 110	0.01 0.047	2.2 6.8	Polypropylene	Yes	Small size, cost effective, full agencies approval
440	PME278	X1	110	0.001	0.15	Impreg. Paper	Yes	Best performance & safety.
440/480	PHE844 R47	X1	105 110	0.1 0.0047	2.2	Polypropylene	Yes	Small size, cost effective, full agencies approval
660	PME264	X2	85	0.001	0.1	Impreg. Paper	Yes	Best performance & safety.
760	PHE845	X1	105	0.01	1.0	Polypropylene	Yes	Unique Offering: Small size, cost effective, full agencies approval

COMMON Y CAPACITORS								
VAC	Series	Class	Max. Temp °C	C-Value Range Min. Max.		Dielectric	Self Healing?	Comments
250	PME271M	Y2	100	0.001 μ F	0.1 μ F	Impreg. Paper	Yes	Excellent flame resistance & high self healing voltage.
250	SMP253	Y2	100	0.001 μ F	4700pF	Impreg. Paper	Yes	SMD. Excellent flame resistance & high self healing voltage.
250	ERO610	Y2	125	0.001 μ F	0.012 μ F	Ceramic Disk	No	Cost effective, meets agency flammability requirements. Will bend during IEC push test.
300	PME271YA-E	Y2	115	0.001 μ F	0.15 μ F	Impreg. Paper	Yes	Excellent flame resistance & high self healing voltage.
300/480	PHE850 R41	Y2	110	0.001 μ F	1.0 μ F	Polypropylene	Yes	Cost effective, meets agency flammability req. PHE850 rated 480V in N. America.
300	ERK610	Y2	125	33pF	4700pF	Ceramic Disk	No	Cost effective, meets agency flammability requirements. Will bend during IEC push test.
440/480	PME295	Y1	115	470pF	4700pF	Impreg. Paper	Yes	Excellent flame resistance & high self healing voltage.
500	ERP610	Y1	125	33pF	4700pF	Ceramic Disk	No	Cost effective, meets agency flammability requirements. Will bend during IEC push test.

Listings in **blue** are most commonly used - offered in the most widely required voltages & with the most competitive prices.

Other Information:

White papers at www.kemet.com
 PPT available from KEMET Sales team

Samples available

www.kemet.com