

EMI Suppression Capacitors

CMPX

Class X1

■ Features

- Plastic Case (UL94 V-0), Epoxy resin sealing
- RoHS Compliant

■ Applications

- For use as a electromagnetic interference (EMI) suppression filter in across-the-line applications

■ Specifications

Reference Standard	IEC 60384-14		
Climatic Category	40/110/56		
Rated Temperature	110°C		
Operation Temperature Range	-40°C~+110°C		
Rated Voltage	330 VAC, 440 VAC, 480 VAC		
Capacitance Range	0.0047 – 6.8 μ F		
Capacitance Tolerance	$\pm$ 20%, $\pm$ 10%		
Dissipation Factor	$\leq$ 0.1% (0.06% *) at 1kHz, +25°C $\pm$ 5°C		
Insulation Resistance	330,440,480 VAC	$\geq$ 30,000M Ω	C $\leq$ 0.33 μ F 100VDC 60SEC+25°C $\pm$ 5°C
		$\geq$ 30,000 M Ω · μ F	C>0.33 μ F 100VDC 60SEC+25°C $\pm$ 5°C

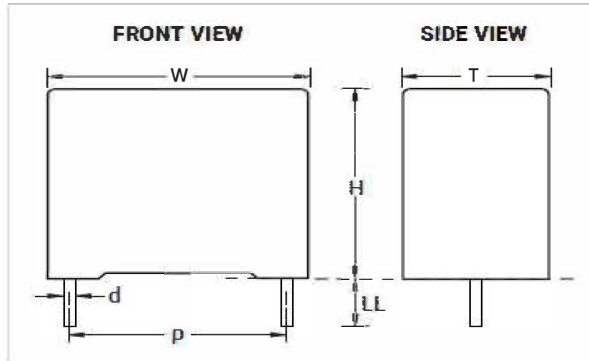
■ Part Number System

CMPX	330V	473	K	10	S	5	
Part-1	Part-2	Part-3	Part-4	Part-5	Part-6	Part-7	Part-8

Part-1 : Series Code(Series Name)-CMPX
Part-2 : Rated Voltage(330, 440, 480 Vac)
Part-3 : Rated Capacitance Value(0.047 – 6.8 μ F / 473~685)
Part-4 : Capacitance Tolerance(K : $\pm$ 10% M : $\pm$ 20%)
Part-5 : Lead Spacing(10mm / 15mm / 22.5mm / 27.5mm / 37.5mm)
Part-6 : Forming -Type and Packing code
Part-7 : Size Number (5~6 : Min-Type / 7 : Standard- Type / 8~15 : Large-Type)
Part-8 : Internal Use

CODE	STYLE
B	Bending Forming
C	Straight Cutting
D	D-Type Forming
L	B-Type long Forming
M	C-Type long Forming
S	Straight
X	B-Type Forming
Y	C-Type Forming
Z	Z-Type Forming
T	A-Type Tapping
U	B-Type Tapping
V	C-Type Tapping

■ Dimensions



330VAC					
Cap. (μF)	Dimension (mm)			Pitch d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.047	18.0	11.0	5.0	15.0-0.6	CMPX AC330V473K15S5_
0.068	18.0	12.0	6.0	15.0-0.6	CMPX AC330V683K15S5_
0.068	18.0	17.5	6.0	15.0-0.6	CMPX AC330V683K15S5_
0.1	18.0	17.5	6.0	15.0-0.6	CMPX AC330V104K15S5_
0.15	18.0	14.5	8.5	15.0-0.6	CMPX AC330V154K15S5_
0.22	18.0	16.0	10.0	15.0-0.8	CMPX AC330V224K15S5_
0.22	18.0	19.0	11.0	15.0-0.8	CMPX AC330V224K15S5_
0.15	26.5	15.0	6.0	22.5-0.8	CMPX AC330V154K22.5S5_
0.22	26.5	16.0	7.0	22.5-0.8	CMPX AC330V224K22.5S5_
0.33	26.5	17.0	8.5	22.5-0.8	CMPX AC330V334K22.5S5_
0.47	26.5	18.5	10.0	22.5-0.8	CMPX AC330V474K22.5S5_
0.68	26.5	22.0	13.0	22.5-0.8	CMPX AC330V684K22.5S5_
0.33	32.0	17.0	9.0	27.5-0.8	CMPX AC330V334K27.5S5_
0.47	32.0	20.0	11.0	27.5-0.8	CMPX AC330V474K27.5S5_
0.68	32.0	20.0	11.0	27.5-0.8	CMPX AC330V684K27.5S5_
0.68	32.0	22.0	13.0	27.5-0.8	CMPX AC330V684K27.5S5_
1	32.0	25.0	13.0	27.5-0.8	CMPX AC330V105K27.5S5_
1	32.0	28.0	14.0	27.5-0.8	CMPX AC330V105K27.5S5_
1.5	32.0	28.0	14.0	27.5-0.8	CMPX AC330V155K27.5S5_
1.5	32.0	33.0	18.0	27.5-0.8	CMPX AC330V155K27.5S5_
2.2	32.0	33.0	18.0	27.5-0.8	CMPX AC330V225K27.5S5_
2.2	32.0	37.0	22.0	27.5-0.8	CMPX AC330V225K27.5S5_
3.3	32.0	37.0	22.0	27.5-0.8	CMPX AC330V335K27.5S5_
0.68	41.5	22.0	11.0	37.5-1.0	CMPX AC330V684K37.5S5_
1	41.5	22.0	11.0	37.5-1.0	CMPX AC330V105K37.5S5_
1.5	41.5	24.0	13.0	37.5-1.0	CMPX AC330V155K37.5S5_
2.2	41.5	28.5	16.0	37.5-1.0	CMPX AC330V225K37.5S5_
3.3	41.5	32.0	19.0	37.5-1.0	CMPX AC330V335K37.5S5_
4.7	41.5	32.0	19.0	37.5-1.0	CMPX AC330V475K37.5S5_
6.8	41.5	45.0	30.0	37.5-1.0	CMPX AC330V685K37.5S5_

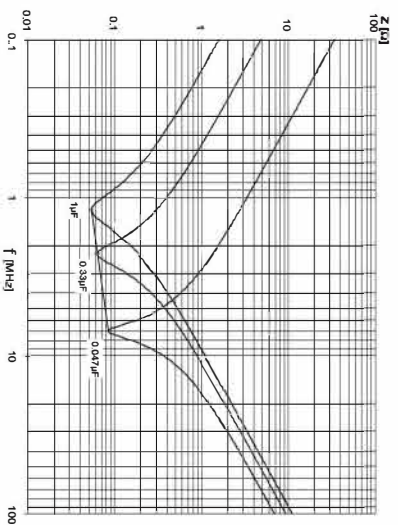
440VAC					
Cap. (μF)	Dimension (mm)			Pitch d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.0047	13.0	9.0	4.0	10.0-0.6	CMPX AC440V472K10S_
0.0068	13.0	11.0	5.0	10.0-0.6	CMPX AC440V682K10S_
0.0082	13.0	12.0	6.0	10.0-0.6	CMPX AC440V822K10S_
0.01	13.0	12.0	6.0	10.0-0.6	CMPX AC440V103K10S_
0.01	18.0	11.0	5.0	15.0-0.6	CMPX AC440V103K15S_
0.012	18.0	11.0	5.0	15.0-0.6	CMPX AC440V123K15S_
0.015	18.0	11.0	5.0	15.0-0.6	CMPX AC440V153K15S_
0.018	18.0	11.0	5.0	15.0-0.6	CMPX AC440V183K15S_
0.022	18.0	12.0	6.0	15.0-0.6	CMPX AC440V223K15S_
0.027	18.0	12.0	6.0	15.0-0.6	CMPX AC440V273K15S_
0.033	18.0	12.0	6.0	15.0-0.6	CMPX AC440V333K15S_
0.039	18.0	13.5	7.5	15.0-0.6	CMPX AC440V393K15S_
0.047	18.0	13.5	7.5	15.0-0.6	CMPX AC440V473K15S_
0.047	18.0	17.5	6.0	15.0-0.6	CMPX AC440V473K15S_
0.047	18.0	12.5	9.0	15.0-0.6	CMPX AC440V473K15S_
0.056	18.0	14.5	8.5	15.0-0.6	CMPX AC440V563K15S_
0.068	18.0	16.0	10.0	15.0-0.8	CMPX AC440V683K15S_
0.068	18.0	18.5	7.5	15.0-0.8	CMPX AC440V683K15S_
0.068	18.0	12.0	13.0	15.0-0.8	CMPX AC440V683K15S_
0.082	18.0	16.0	10.0	15.0-0.8	CMPX AC440V823K15S_
0.1	18.0	19.0	11.0	15.0-0.8	CMPX AC440V104K15S_
0.047	26.5	15.0	6.0	22.5-0.8	CMPX AC440V473K22.5S_
0.047	26.5	13.5	6.5	22.5-0.8	CMPX AC440V473K22.5S_
0.068	26.5	15.0	6.0	22.5-0.8	CMPX AC440V683K22.5S_
0.1	26.5	16.0	7.0	22.5-0.8	CMPX AC440V104K22.5S_
0.12	26.5	17.0	8.5	22.5-0.8	CMPX AC440V124K22.5S_
0.15	26.5	18.5	10.0	22.5-0.8	CMPX AC440V154K22.5S_
0.18	26.5	18.5	10.0	22.5-0.8	CMPX AC440V184K22.5S_
0.22	26.5	20.0	11.0	22.5-0.8	CMPX AC440V224K22.5S_
0.27	26.5	22.0	13.0	22.5-0.8	CMPX AC440V274K22.5S_
0.33	26.5	22.0	13.0	22.5-0.8	CMPX AC440V334K22.5S_
0.15	32.0	17.0	9.0	27.5-0.8	CMPX AC440V154K27.5S_
0.18	32.0	17.0	9.0	27.5-0.8	CMPX AC440V184K27.5S_
0.22	32.0	17.0	9.0	27.5-0.8	CMPX AC440V224K27.5S_
0.27	32.0	17.0	9.0	27.5-0.8	CMPX AC440V274K27.5S_
0.33	32.0	20.0	11.0	27.5-0.8	CMPX AC440V334K27.5S_
0.39	32.0	20.0	11.0	27.5-0.8	CMPX AC440V394K27.5S_
0.47	32.0	22.0	13.0	27.5-0.8	CMPX AC440V474K27.5S_
0.56	32.0	22.0	13.0	27.5-0.8	CMPX AC440V564K27.5S_
0.68	32.0	28.0	14.0	27.5-0.8	CMPX AC440V684K27.5S_
0.82	32.0	33.0	18.0	27.5-0.8	CMPX AC440V824K27.5S_
1	32.0	33.0	18.0	27.5-0.8	CMPX AC440V105K27.5S_
1.2	32.0	33.0	18.0	27.5-0.8	CMPX AC440V125K27.5S_
1.5	32.0	37.0	22.0	27.5-0.8	CMPX AC440V155K27.5S_
0.47	41.5	22.0	11.0	37.5-1.0	CMPX AC440V474K37.5S_
0.56	41.5	22.0	11.0	37.5-1.0	CMPX AC440V564K37.5S_
0.68	41.5	24.0	13.0	37.5-1.0	CMPX AC440V684K37.5S_
0.82	41.5	28.5	16.0	37.5-1.0	CMPX AC440V824K37.5S_
1	41.5	28.5	16.0	37.5-1.0	CMPX AC440V105K37.5S_
1.2	41.5	32.0	19.0	37.5-1.0	CMPX AC440V125K37.5S_
1.5	41.5	32.0	19.0	37.5-1.0	CMPX AC440V155K37.5S_
1.8	41.5	40.0	20.0	37.5-1.0	CMPX AC440V185K37.5S_
2.2	41.5	40.0	20.0	37.5-1.0	CMPX AC440V225K37.5S_

Metallized Polypropylene Film EMI Suppression Capacitors

480VAC					
Cap. (μ F)	Dimension (mm)			Pitch d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.1	26.0	16.0	8.0	22.5-0.8	CMPX AC480V104K22.5S_
0.15	26.0	18.5	9.0	22.5-0.8	CMPX AC480V154K22.5S_
0.22	26.0	21.5	11.0	22.5-0.8	CMPX AC480V224K22.5S_
0.33	26.0	23.0	13.5	22.5-0.8	CMPX AC480V334K22.5S_
0.47	26.0	24.5	15.5	22.5-0.8	CMPX AC480V474K22.5S_
0.22	31.5	20.5	10.5	27.5-0.8	CMPX AC480V224K27.5S_
0.33	31.5	23.0	13.5	27.5-0.8	CMPX AC480V334K27.5S_
0.47	31.5	24.5	14.5	27.5-0.8	CMPX AC480V474K27.5S_
0.68	31.5	28.0	17.5	27.5-0.8	CMPX AC480V684K27.5S_
1	31.5	30.0	21.0	27.5-0.8	CMPX AC480V105K27.5S_
0.47	41.0	24.0	13.0	37.5-1.0	CMPX AC480V474K37.5S_
0.68	41.0	24.0	13.0	37.5-1.0	CMPX AC480V684K37.5S_
1	41.0	26.0	15.0	37.5-1.0	CMPX AC480V105K37.5S_
1.5	41.0	36.0	19.0	37.5-1.0	CMPX AC480V155K37.5S_
2.2	41.0	38.0	21.0	37.5-1.0	CMPX AC480V225K37.5S_

■ Electrical Characteristics (Typical Data)

Impedance Graph(330)



Impedance Graph(440)

