

Class X2,275VAC,max.+100°C,metallized polypropylene,Noise suppression capacitor

[1] Features

International Safety approvals.
 Self-healing.
 For worldwide use in all X2 and across-the-line applications.
 Pb(lead)-free product.
 RoHS Compliant product.



RoHS Compliant

[2]Construction

- ① **Style** :radial,rectangular thermo-plastic box.
- ② **Winding** :non-inductively wound self-healing metallized polypropylene film encapsulated with self-extinguishing epoxy resin in a flame retardant box(UL 94V-0).
- ③ **Termination** :Pb-free tinned leads.

[3]Specifications

① **General data**

Applicable standard	IEC60384-14,EN132400	
Rated voltage(URAC)50/60Hz	275VAC	
Capacitance range	0.01uF~3.3uF	
Capacitance tolerance	±10%(K),±20%(M) at 20°C,1Khz	
Climatic category	40/100/21	
Rated temperature(TR)	+100°C	
Max. applicable temperature(Tmax)	+100°C	

② **Electrical data**

Withstand voltage(VDC)	CR ≤ 1.0uF	2,250VDC 1min.	
	CR > 1.0uF	1,850VDC 1min.	
Dissipation factor(DF)		at 1Khz	at 10Khz
	CR ≤ 0.47uF	0.1%	0.2%
	0.47uF < CR ≤ 1.0uF	0.2%	0.7%
	CR > 1.0uF	0.3%	
Insulation resistance(Rins)	CR ≤ 0.33uF	> 15,000MΩ	
	CR > 0.33uF	> 5,000s	
Permissible $\frac{dv}{dt}$ value	100v/μs		

*CR = Nominal Capacitance in μF

[4]Ordering/part number information

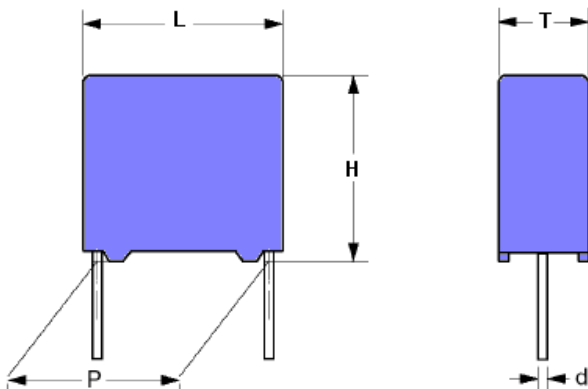
CFS	99	P	F	X2	27D	104	K	C	050
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- (1)Kind of capacitor:noise suppression capacitor on AC mains
- (2)Shape of capacitor:rectangular,thermo-plastic box,radial
- (3)Dielectrics:polypropylene
- (4)Operating temperature:-40~+100°C
- (5)Sub class:X2
- (6)URAC:expressed in tens of volts of AC,the letter D indicates 5V. for example:275VAC=27D
- (7)*Capacitance in pF:100,000pF=0.1uF
- (8)*Capacitance tolerance:±10%
- (9)*Packaging and lead configuration code:bulk,loose parts in a poly.bag,straight short leads with cut leads.
- (10)*Lead length in tenth of mm:5mm

*For further details,refer to [\[Part numbering system & taping specification\]](#)

[5]Dimensions in mm



uF	L	H	T	d
pitch 10.0mm				
0.01	12.5	10.0	4.0	0.6
0.015	12.5	10.0	4.0	0.6
0.022	12.5	10.0	4.0	0.6
0.033	12.5	11.0	5.0	0.6
0.047	12.5	11.0	5.0	0.6
0.068	12.5	12.0	6.0	0.6
0.1	12.5	12.0	6.0	0.6
pitch 15.0mm				
0.15	18.0	13.5	7.0	0.8
0.22	18.0	15.0	8.5	0.8
0.33	18.0	16.5	10.0	0.8
0.47	18.0	18.5	11.0	0.8
0.68	18.0	20.0	12.0	0.8
pitch 22.5mm				
0.47	26.0	18.0	8.5	0.8
0.68	26.0	19.5	10.0	0.8
1.0	26.0	23.0	13.0	0.8
pitch 27.5mm				
1.5	31.0	25.0	15.0	0.8
2.2	31.0	28.0	18.0	0.8
3.3	31.0	31.0	21.0	0.8

*For further details, refer to  [General technical information of \(RFI/EMI\)noise suppression capacitors on AC mains](#)