

Class X2,305VAC,max.+105°C,metallized polypropylene,Noise suppression capacitor

[1] Features

- International Safety approvals.
- Self-healing.
- Wide temperature range.
- 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	305VAC
Capacitance range	0.001uF~3.3uF
Capacitance tolerance	±10%(K),±20%(M) at 20°C,1Khz
Climatic category	55/105/21
Rated temperature(TR)	+105°C
Max. applicable temperature(Tmax)	+105°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

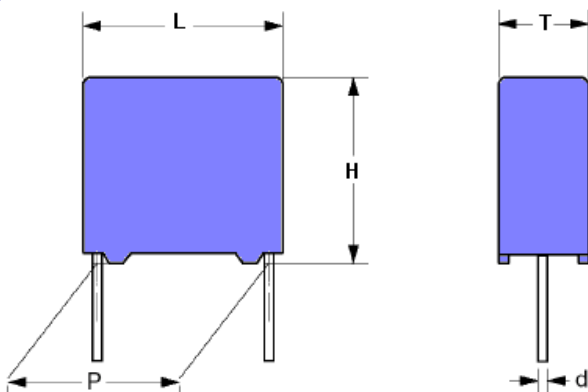
[4]Ordering/part number information

CFS	99	P	F	X2	30D	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:-55~+105°C
- (5) Sub class:X2
- (6) URAC:expressed in tens of volts of AC,the letter D indicates 5V. for example:305VAC=30D
- (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 7.5mm				
0.001	10.0	9.0	4.0	0.6
0.0015	10.0	9.0	4.0	0.6
0.0022	10.0	9.0	4.0	0.6
0.0033	10.0	9.0	4.0	0.6
0.0047	10.0	9.0	4.0	0.6
0.0068	10.0	9.0	4.0	0.6
0.01	10.0	9.0	4.0	0.6
pitch 10.0mm				
0.001	12.5	10.0	4.0	0.6
0.0015	12.5	10.0	4.0	0.6
0.0022	12.5	10.0	4.0	0.6
0.0033	12.5	10.0	4.0	0.6
0.0047	12.5	10.0	4.0	0.6
0.0068	12.5	10.0	4.0	0.6
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				
0.068	18.0	11.0	5.0	0.8
0.1	18.0	11.0	5.0	0.8
0.1	18.0	12.0	6.0	0.8
0.15	18.0	13.5	7.0	0.8
0.22	18.0	15.0	8.5	0.8
0.22	18.0	12.5	9.0	0.8
0.33	18.0	16.5	10.0	0.8
0.33	18.0	12.5	13.0	0.8
0.47	18.0	18.5	11.0	0.8
pitch 22.5mm				
0.22	26.0	15.5	6.0	0.8
0.33	26.0	16.5	7.0	0.8
0.47	26.0	18.0	8.5	0.8
0.47	26.0	13.5	16.0	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				
0.68	31.0	21.0	11.0	0.8
1.0	31.0	23.0	13.0	0.8
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](#)

