

**Class X2,275VAC,max.+85°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**

<b>Applicable standard</b>	IEC60384-14,EN132400
<b>Rated voltage(URAC)50/60Hz</b>	275VAC
<b>Capacitance range</b>	0.01uF~2.2uF
<b>Capacitance tolerance</b>	±10%(K),±20%(M) at 20°C,1Khz
<b>Climatic category</b>	40/85/21
<b>Rated temperature(TR)</b>	+85°C
<b>Max. applicable temperature(Tmax)</b>	+85°C

**② Electrical data**

<b>Withstand voltage(VDC)</b>	CR ≤ 1.0uF	2,250VDC 1min.
	1.0uF < CR ≤ 2.2uF	1,850VDC 1min.
<b>Dissipation factor(DF) at 10Khz</b>	CR ≤ 0.1uF	0.1%
	0.1uF < CR ≤ 0.47uF	0.2%
	CR > 0.47uF	0.7%
<b>Insulation resistance(Rins)</b>	CR ≤ 0.33uF	> 30,000MΩ
	CR > 0.33uF	> 10,000s
<b>Permissible <math>\frac{dv}{dt}</math> value</b>	100v/μs	

\*CR = Nominal Capacitance in μF

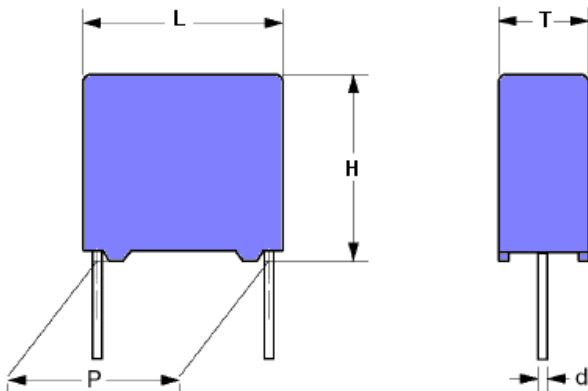
**[4] Ordering/part number information**

<b>CFS</b>	<b>99</b>	<b>P</b>	<b>G</b>	<b>X2</b>	<b>27D</b>	<b>104</b>	<b>K</b>		<b>0150</b>
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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~+85°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:No code for bulk,loose parts in a poly.bag,straight long leads.
- (10)\*Lead pitch:15mm

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

**[5] Dimensions in mm**



<b>uF</b>	<b>L</b>	<b>H</b>	<b>T</b>	<b>d</b>
<b>pitch 15.0mm</b>				
<b>0.01</b>	18.0	11.0	5.0	0.8
<b>0.015</b>	18.0	11.0	5.0	0.8
<b>0.022</b>	18.0	11.0	5.0	0.8
<b>0.033</b>	18.0	11.0	5.0	0.8
<b>0.047</b>	18.0	11.0	5.0	0.8
<b>0.068</b>	18.0	11.0	5.0	0.8
<b>0.068</b>	18.0	12.0	6.0	0.8
<b>0.1</b>	18.0	12.0	6.0	0.8
<b>0.15</b>	18.0	15.0	8.5	0.8
<b>0.22</b>	18.0	16.5	10.0	0.8
<b>pitch 22.5mm</b>				
<b>0.15</b>	26.0	15.5	6.0	0.8
<b>0.22</b>	26.0	16.5	7.0	0.8
<b>0.33</b>	26.0	18.0	8.5	0.8
<b>0.47</b>	26.0	19.5	10.0	0.8
<b>pitch 27.5mm</b>				
<b>0.47</b>	31.0	19.0	9.0	0.8
<b>0.68</b>	31.0	21.0	11.0	0.8
<b>1.0</b>	31.0	23.0	13.0	0.8
<b>1.5</b>	31.0	28.0	18.0	0.8
<b>2.2</b>	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](#)