# X Series

for interference Suppression and Across-The-Line, Class X2



#### **Feature**

X series is self-healing flat style capacitor, which is wound with poly ropylene film dielectric, flame retardant, plastic case and epoxy resin end seal. Following styles belong to this series:

S=Tinned copper clad steel wire radial leads.

P=UL 1015 or 1017 AWG#20~22 solid PVC insulation wire radial leads.

X series is especially designed for radio interference suppression and across-the-line capacitors in:

- (1)Business machine's appliance, such as typewriter, computer display and monitor.
- (2)Household appliance, such as mixer, fan, coffee grinder, audio and TV circuit.
- (3) Thyristor and triac appliance, such as dimmer, power supply.

#### **Specifications**

Climate category	In accordance with DIN40040 GPF			
Voltage Range	250V.(UL.CSA)/275V.AC,50~60Hz			
Capacitance Range	0.0047-1.00uF			
Capacitance Tolerance	J(±5%), K(±10%), M(±20%)			
Withstand Voltage	1,200V.AC(60Hz)for 60 sec. or 2,100V.DC for 1 sec.			
Dissipation Factory				
Insulation Resistance (between terminals)	$\geqslant 3x10^4M\Omega$ for C $\leqslant$ 0.33uF $\geqslant 1x10^4M\Omega$ /uF for C>0.33uf			

G(Minimum Limit Temperature)=-40°C

M(Maximum Limit Temperature)=+100°C

 $F(Humidty\ Category) = average\ relative\ humidity \leqslant 75\%$ 

95% for 30 days per year continuously 85% for the ramining days occasionally

 $J=\pm5\%$ ,  $K=\pm10\%$ ,  $M=\pm20\%$ 

## X Serise X2 Metallized Polypropylene Film Capaciyors

All dimension are in mm

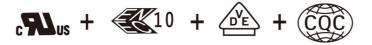
High Quality Class X<sub>2</sub>

	Data d Car					
Part number	Rated Cap	T(max)	H(max)	W(max)	P±0.5	D±0.05
HQX103 275F SNY	0.01uF	5.0	11.0	12.0	10.0	0.6
HQX123 275F SNY	0.012uF	5.0	11.0	12.0	10.0	0.6
HQX153 275F SNY	0.015uF	5.0	11.0	12.0	10.0	0.6
HQX183 275F SNY	0.018uF	5.0	11.0	12.0	10.0	0.6
HQX223 275F SNY	0.022uF	5.0	11.0	12.0	10.0	0.6
HQX273 275F SNY	0.027uF	5.0	11.0	12.0	10.0	0.6
HQX333 275F SNY	0.033uF	5.0	11.0	12.0	10.0	0.6
HQX473 275F SNY	0.047uF	5.0	11.0	12.0	10.0	0.6
HQX563 275F SNY	0.056uF	5.0	11.0	12.0	10.0	0.6
HQX683 275F SNY	0.068uF	5.0	11.0	12.0	10.0	0.6
HQX823 275F SNY	0.082uF	5.0	11.0	12.0	10.0	0.6
HQX104 275F SNY	0.1uF	6.0	12.0	12.0	10.0	0.6/0.8
HQX104 2751 SNY	0.1uF	5.0	11.0	17.0	15.0	8.0
HQX154 275F SNY	0.15uF	8.5	16.0	12.0	10.0	0.6
HQX154 2751 SNY	0.15uF	6.0	12.0	17.0	15.0	8.0
HQX224 275F SNY	0.22uF	8.5	16.3	12.0	10.0	0.6
HQX224 2751 SNY	0.22uF	6.0	14.0	17.0	15.0	8.0
HQX224 275N SNY	0.22uF	6.0	14.5	25.0	22.5	0.8
HQX334 2751 SNY	0.33uF	7.5	15.5	17.0	15.0	8.0
HQX334 275N SNY	0.33uF	6.0	14.5	25.0	22.5	8.0
HQX394 275N SNY	0.39uF	8.5	16.5	17.0	15.0	8.0
HQX394 275N SNY	0.47uF	8.5	18.0	17.0	15.0	8.0
HQX474 2751 SNY	0.47uF	10.3	16.0	17.0	15.0	8.0
HQX474 275N SNY	0.47uF	7.0	16.5	25.0	22.5	8.0
HQX474 275R SNY	0.47uF	7.5	16.5	30.0	27.5	8.0
HQX564 2751 SNY	0.56uF	11.0	19.0	17.0	15.0	8.0
HQX684 2751 SNY	0.68uF	11.0	19.0	18.0	15.0	0.8
HQX684 275N SNY	0.68uF	8.5	17.0	25.0	22.5	8.0
HQX684 275R SNY	0.68uF	7.5	16.5	30.0	27.5	0.8
HQX824 275N SNY	0.82uF	10.0	19.0	25.0	22.5	0.8
HQX824 275R SNY	0.82uF	10.5	18.0	30.0	27.5	0.8
HQX105 275N SNY	1.0uF	10.0	19.0	25.0	22.5	0.8
HQX105 275R SNY	1.0uF	10.5	18.0	30.0	27.5	0.8

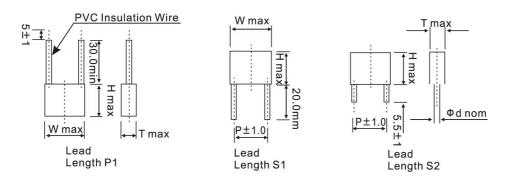
## X Serise X2 Metallized Polypropylene Film Capaciyors

#### Approval Data

Country	Specifications	File and Ref.No.		
CUL	UL-1414	E183780		
VDE/ENEC	EN60384-14	40024534		
CQC	GB/T14472-1998	CQC03001003067		



## Diagram of Dimensions(unit=mm)



## Pitch and lead Dimensions(mm)

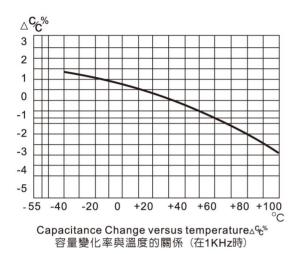
W	12.0	13.0	17.0	18.0	25.0	26.5	30.0	31.5	37.5
Р	10.0	10.0	15.0	15.0	22.5	22.5	27.5	27.5	32.5
ФД	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8

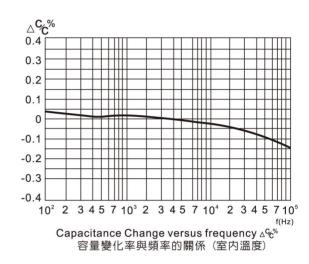
Wire Size:

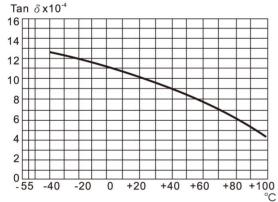
AWG#22 for=18.0mm AWG#20 for≥26.5mm

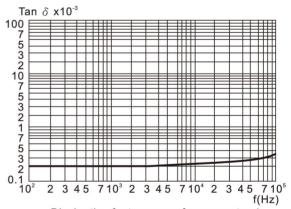
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#### Temperature and Fequency Characteristice

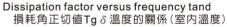


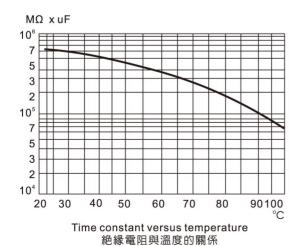


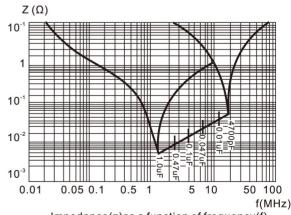




Dissipation factor versus temperature tandmeasured at 1 KHz 損耗角正切值Tg  $\delta$  溫度的關係(在1 KHz時)







Impedance(z)as a function of frequency(f) at T=20°C (Average) 阻抗與頻率的關係 Measurement with lead length 6mm