



# Interference Suppression Capacitor

Y2/X1



 Metallized Polypropylene Film  
 Metal spray layer  
 Connecting wire

## Construction:

Dielectric : Polypropylene Film.  
 Electrodes : Zinc-AL Metallization.  
 Winding : non-inductive type.  
 Leads : Tinned Wire.  
 Outer coating : Flame retarding plastic case and epoxy filled.

## Feature:

Self-healing properties.  
 In accordance with CB , ENEC , UL , CUL , CQC  
 safety regulations  
 Class Y2 Class X1

## Recommended Application:

Interference suppressors.  
 Antenna coupling.  
 Across the line.  
 Line to ground.  
 EMI filter

## Electrical Characteristics:

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                    |         |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------|---------|
| Related Documents                                       | EN 60384-14 , UL 1283 ,GB/T14472.                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                    |         |
| Rated Voltage                                           | 300VAC (EN 60384-14) , 310VAC (UL1283).                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                                                    |         |
| Rated Temperature                                       | -40℃ ~ +110℃                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                                    |         |
| Capacitance Range                                       | 0.001μF ~ 0.22μF.                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                    |         |
| Dissipation Factor                                      | 0.1% or less. at 1Khz , 20± 5℃                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                    |         |
| Insulation Resistance                                   | Terminal to Terminal:<br>≥15000MΩ at DC 100V ( C≤ 0.33μF)<br>≥ 5000MΩ× μF at DC 100V (C>0.33μF)                                                                                                                                                                                                                                                                                                                                                       |       | Terminal to Enclosure:<br>≥30000MΩ at DC 100V<br>≥500MΩ at DC 500V |         |
| Withstand Voltage                                       | [Between terminal] :<br>Nothing abnormal shall be found when apply a voltage specified below for 1 minute<br>AC 1500V or DC 2250V<br>Or DC 3000V for 3 sec<br>Cut-off Current AC : 2A , DC : 10mA<br>1. Above test must connected with a current limiting resistance of 1 Ω / Voltage.<br>2. Slow-up voltage speed : 100V/sec.<br>[Between terminal and enclosure] :<br>Nothing abnormal shall be found when apply a voltage of 2050Vac for 1 minute. |       |                                                                    |         |
| Rated Voltage<br>Pulse Slope dV/dt<br>(V/μs ) at 438VDC | <div>Pitch<br/>V<sub>R</sub></div>                                                                                                                                                                                                                                                                                                                                                                                                                    | 10m/m | 15m/m                                                              | 22.5m/m |
|                                                         | 438VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                | 800   | 600                                                                | 500     |
| Climate Category                                        | code letter G and number 40 = Minimum limit temperature.... -40℃.<br>code letter M and number 100 = Maximum limit temperature.... +100℃.<br>code letter F and number 56 = Maximum limit of Relative Humidity<br>The days of damp heat test..... 56 days.<br>code letter B = Category of Passive flammability.                                                                                                                                         |       |                                                                    |         |



# Interference Suppression Capacitor

## SAFETY APPROVALS :

| LOGO MARK                                                                              | COUNTRY         | APPROVAL STANDARD    | APPROVAL NO.   | CLASS | CAP. RANGE       | RATED VOLTAGE |
|----------------------------------------------------------------------------------------|-----------------|----------------------|----------------|-------|------------------|---------------|
| UL    | U.S.A<br>CANADA | UL-1283              | E221690        | Y2/X1 | 0.001μF ~ 0.22μF | 310VAC        |
| ENEC  | SEMKO           | IEC-60384-14<br>2005 | No.SE/0252-3   | Y2/X1 | 0.001μF ~ 0.22μF | 300<br>VAC    |
| CB                                                                                     | SEMKO           | IEC-60384-14<br>2005 | SE-55114       | Y2/X1 | 0.001μF ~ 0.22μF | 300<br>VAC    |
| CQC   | CHINA           | GB/T14472<br>1998    | CQC08001028115 | Y2    | 0.001μF ~ 0.22μF | 300<br>VAC    |

Cap. (μF)

| Size   | W    | H    | T   | P  | dφ  |
|--------|------|------|-----|----|-----|
| 0.001  | 13.0 | 9.0  | 4.0 | 10 | 0.6 |
| 0.0015 | 13.0 | 9.0  | 4.0 | 10 | 0.6 |
| 0.0022 | 13.0 | 10.0 | 5.0 | 10 | 0.6 |
| 0.0033 | 13.0 | 10.0 | 5.0 | 10 | 0.6 |
| 0.0047 | 13.0 | 11.0 | 5.0 | 10 | 0.6 |
| 0.0068 | 13.0 | 12.0 | 6.0 | 10 | 0.6 |
| 0.0082 | 13.0 | 13.0 | 7.0 | 10 | 0.6 |
| 0.01   | 13.0 | 14.0 | 8.0 | 10 | 0.6 |
| 0.0022 | 18.0 | 11.0 | 5.0 | 15 | 0.8 |
| 0.0033 | 18.0 | 11.0 | 5.0 | 15 | 0.8 |
| 0.0047 | 18.0 | 11.0 | 5.0 | 15 | 0.8 |
| 0.0056 | 18.0 | 11.0 | 5.0 | 15 | 0.8 |

Size unit: m/m

| Size   | W    | H    | T    | P    | dφ  |
|--------|------|------|------|------|-----|
| 0.0068 | 18.0 | 11.0 | 5.0  | 15   | 0.8 |
| 0.0082 | 18.0 | 11.0 | 5.0  | 15   | 0.8 |
| 0.01   | 18.0 | 11.0 | 5.0  | 15   | 0.8 |
| 0.015  | 18.0 | 12.0 | 6.0  | 15   | 0.8 |
| 0.022  | 18.0 | 13.0 | 7.0  | 15   | 0.8 |
| 0.033  | 18.0 | 15.0 | 9.0  | 15   | 0.8 |
| 0.047  | 18.0 | 17.0 | 10.0 | 15   | 0.8 |
| 0.047  | 26.0 | 16.0 | 6.0  | 22.5 | 0.8 |
| 0.068  | 26.0 | 16.5 | 7.5  | 22.5 | 0.8 |
| 0.1    | 26.0 | 18.0 | 9.0  | 22.5 | 0.8 |
| 0.15   | 26.0 | 20.0 | 11.0 | 22.5 | 0.8 |
| 0.22   | 26.0 | 24.0 | 14.0 | 22.5 | 0.8 |