



愛得電子股份有限公司

匣式電容器規格書

成品型號: AUP475K2PTX  
AUP106K2PTX

版次: 0

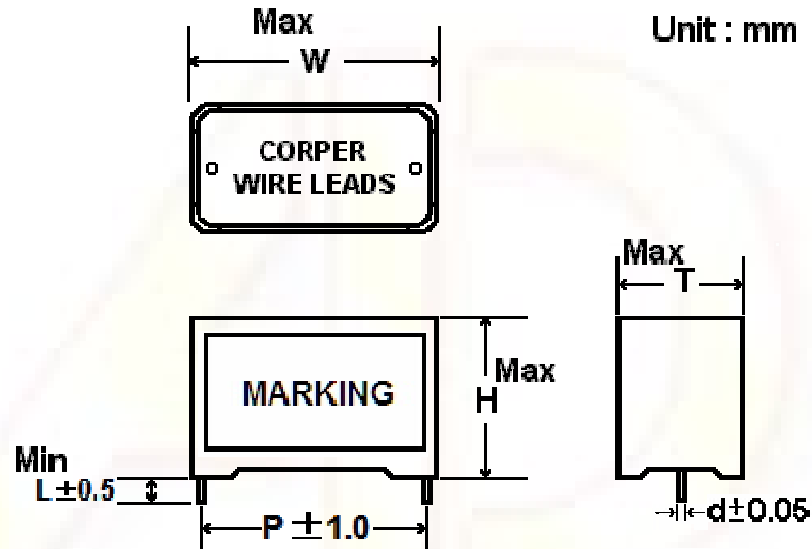
日期: 2012/06/19

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制訂者	版本	制訂日期	修訂說明	
郭秀真	0	2012/06/19	首次發行	
	1	2013/04/26	Add "Shelf life"	
核 准		審 核		制 訂
陳勝傑		蔡坤旺		郭秀真



**Metallized Polypropylene Film Capacitor.**  
**TYPE : ADP475K/350VAC**  
**ADP106K/350VAC**



TYPE	ADP	
DIMENSIONS	Unit	mm
CAPACITANCE	μF	4.7、10
Voltage	VAC	350
Max. Insulation Resistance	IR	Above 2000MΩ between teminals and case

AID ELECTRONICS CORPORATION  
 NO.65, LANE 667, CHANG SAN ROAD, SHENG KUNG, TAICHING, TAIWAN, R.O.C  
 TEL : 886-4-25620100 FAX : 886-4-25629657  
 http : // www.aid.com.tw/ E-mail : aidec@ms17.hinet.net



- 1.Part Name: Metallized Polypropylene Film Capacitor.
- 2.Type: ADP (Plastic Case / CU Lead Wires)
- 3.Working Voltage:350VAC
- 4.Capacitance Range:4.7uF、10uF
- 5.Capacitance Range Tolerance: K( $\pm 10\%$ )
- 6.Temperature Range: - 25 $^{\circ}$ C-- +85 $^{\circ}$ C
- 7.Flame retardant plastic case & the Flame retardant resin : PBT 94-V0
- 8.Characteristics

ARTICLE	APPLICATION ITEM	CHARACTERSTICS	TEST METHOD
1.	Dielectric Strength (Test voltage between terminals and case)	No damage	Applied rated voltage $\times 2$ VAC For 2Sec 25 $^{\circ}$ C.
	Test voltage between terminals and case		Applied rated voltage $\times 2 + 1000$ VAC (minimum2000VAC) For 1 minute.
2.	Insulation Resistance (Between Terminals)	Above 2000M $\Omega$ between terminals and case	Measured at 100VDC after 1 minute.
3.	Capacitance	Within the specification	Measured with Frequency 50/60Hz and AC voltage less than 6V.
4.	Dissipation factor	$\tan \delta < 0.1\%$	
5.	Vibration	No opening and short happened No damage in element junction and appearance.	10 – 55Hz 1.5 mm amplitude 3 direction 2H Per direction.
6.	Solder ability	Good tinning ,by eye measurement more than 3/4 of circumference is covered with new solder	Solder temp. 260 $^{\circ}$ C $\pm 5^{\circ}$ C dwell time 3 $\pm$ 0.5 Sec
7.	Cold	Capacitance change within + 3 -0% of 25 $^{\circ}$ C	At - 25 $^{\circ}$ C no Voltage applied
8.	Heat	Capacitance change within + 0 -5% of 25 $^{\circ}$ C	At + 85 $^{\circ}$ C no Voltage applied



ARTICLE	APPLICATION ITEM	CHARACTERSTICS	TEST METHOD
9.	Humidity life test	Appearance : No damage Dielectric strength :No damage IR : > 30% of initial value cap. change $\leq$ 5% of initial value $\tan\delta < 0.15\%$	Temp . and humidity 40°C 90 - 95% R.H.add W.V. for 500H then keep 16H under room temp.
10.	Heat life test	Appearance : no damage IR : > 50% of Specified Value cap. change : $\leq$ 3% of initial value $\tan\delta < 0.15\%$	Add 125% of W.V. 85°C in chamber for 1,000H then keep 16H under room temp for continuous test. Add 140% of W.V 85°C in chamber for on/off test for one hundred thousand times and then keep 16H under room temp.
11.	Shelf life	Min 3000Hrs.	
12.	Sort test	Appearing : No damage Dielectric strength : No damage Capacitance : wthin the specification D.F : within the specification	Vms $\times\sqrt{2}$ VDC For 3~5 Times discharge.
13.	Epoxy resin filled	Epoxy resin can not to overflow the bottom of plastic case.	By venire measurement

**8.MARKING**

a. w.v.

b. Capacitance

c. Capacitance tolerance

d. Trading mark

<p>ADP TYPE 4.7<math>\mu</math>F<math>\pm</math>10% 350V.AC - 25°C ~ + 85°C E197934 50/60HZ AID ELECT.CORP.,</p>	<p>ADP TYPE 10<math>\mu</math>F<math>\pm</math>10% 350V.AC - 25°C ~ + 85°C E197934 50/60HZ AID ELECT.CORP.,</p>
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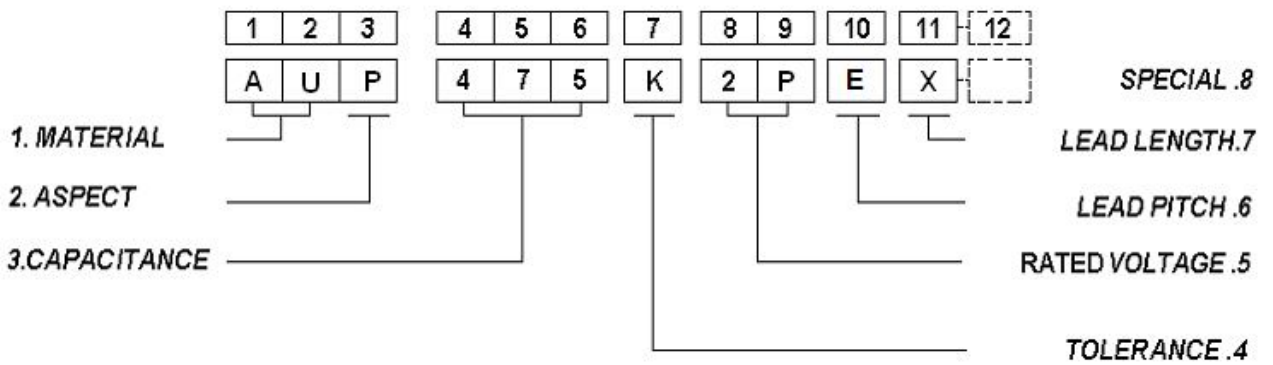
**9. Terminal & Dimension**

AD PART NO.	VOLTAGE	CAPACITANCE		DIMENSION					
		SYMBOL	MF	W	H	T	P	d	L
AUP475K2PTX	350VAC	475	4.7	39.0	32.0	20.0	32.0	1.0	4.0
AUP106K2PTX	350VAC	106	10	53.0	39.0	24.0	46.0	1.0	4.0

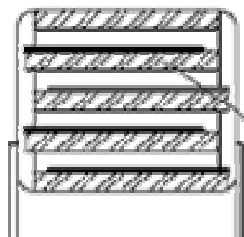



10. (AID) PART NO.

HOW TO ORDER(AID Computer CODE)



Winding scheme

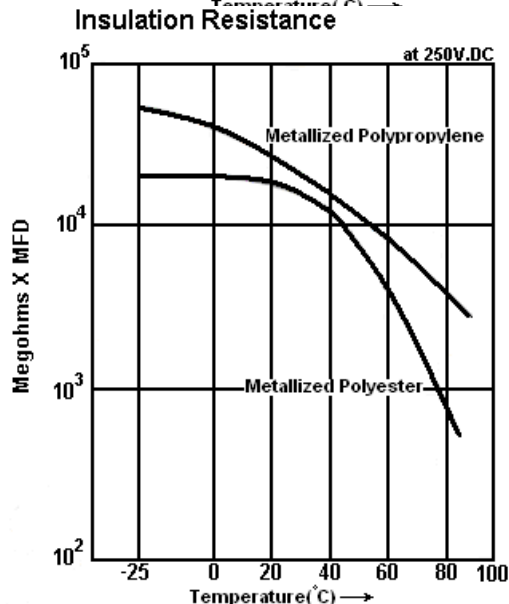
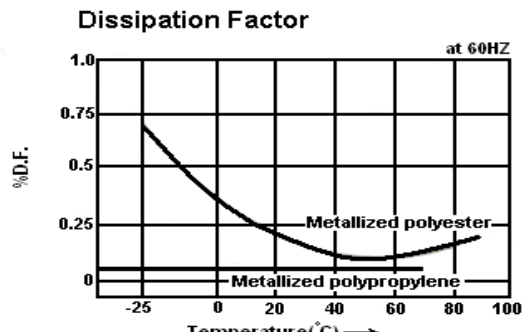
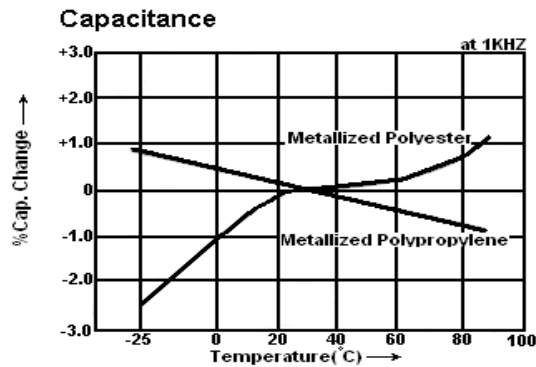


Single sided metallized polypropylene film



## TEMPERATURE AND FREQUENCY CHARACTERISTICS

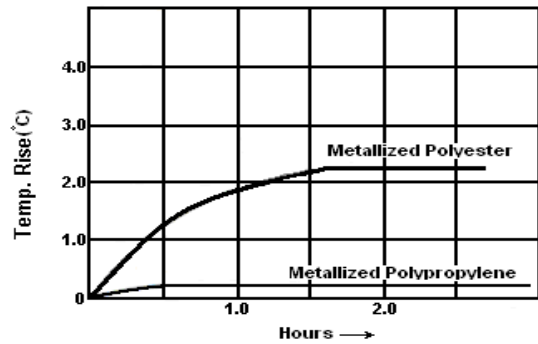
### Temperature Characteristics



### Endurance

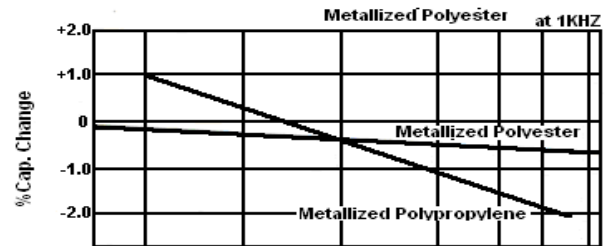
#### Temperature Rise (Capacitor Surface)

Tested at : Max. permissible temp. (w/o air circulation)  
1.1 x rated voltage (60Hz)  
Sample : 250VAC, 6uF



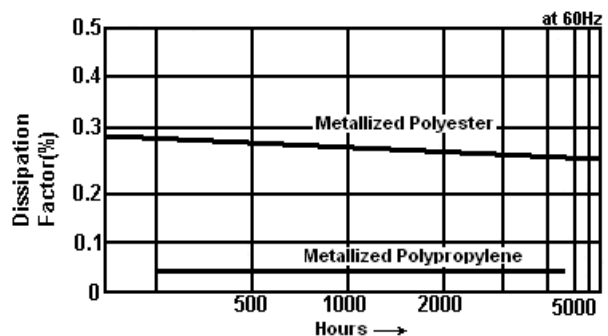
#### Continuous Endurance: Capacitance Change

250V 6uF n=20  
70°C~85°C 60Hz 300VAC



#### Continuous Endurance : Dissipation Factor Change

250V 6uF n=20  
70°C~85°C 60Hz 300VAC





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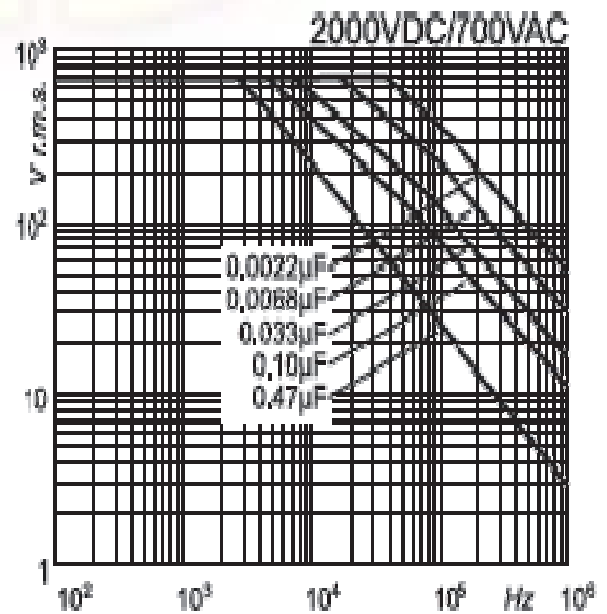
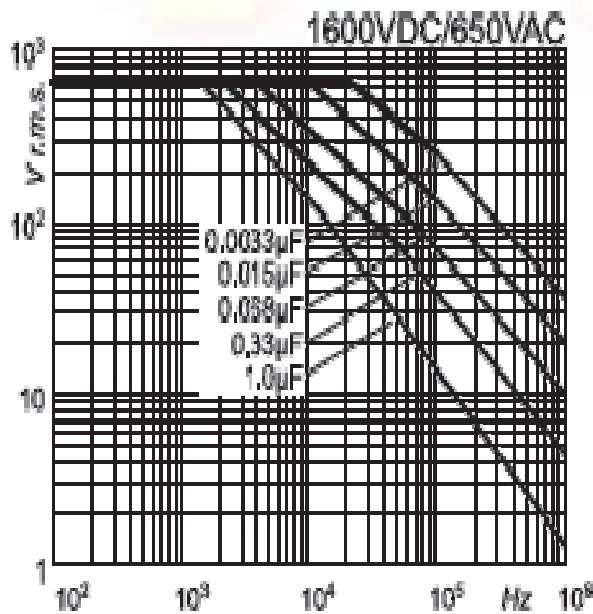
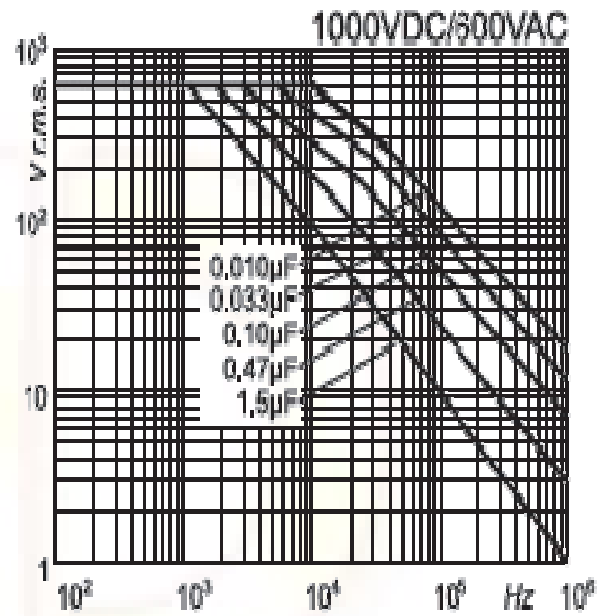
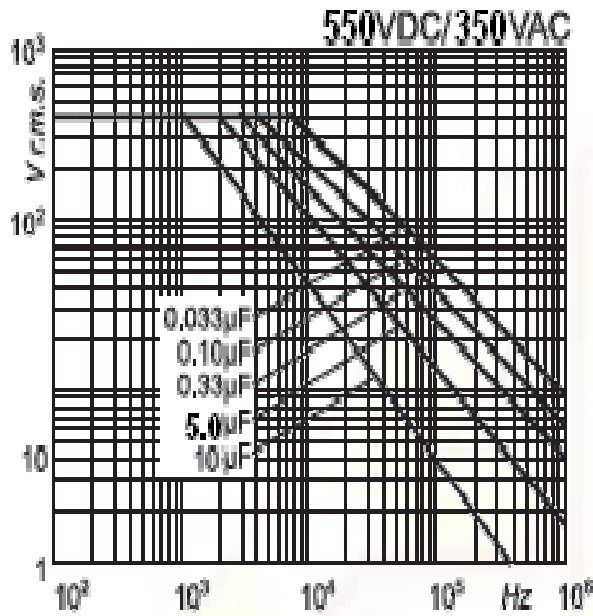
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Permissible AC voltage versus frequency (sinusoidal waveform) for  $\Delta T=+10^{\circ}\text{C}$   
Referred to the largest pitch execution among available ones







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**QMFZ2.E154421  
Plastics - Component**

Additional information regarding this certification can be found in UL's iQ Family of Databases ([www.ul.com/iq](http://www.ul.com/iq)).

**NEW -- for additional information concerning the individual material, click on the material designation.**

[Page Bottom](#)

**Plastics - Component**

[See General Information for Plastics - Component](#)

**KO HO CHEMICAL CO LTD**  
13 ERH KAN RD  
SAN KAN HSIANG WAI PU  
TAI CHUNG, 438 TAIWAN

E154421

									H	D	
			Min.	H	H	R T I			V	4	C
		Thk	Flame	W	A	Elec	Mech		T	9	T
Material Dsg	Color	mm	Class	I	I		Imp	Str	R	5	I
<b>Epoxy Potting Compound (EP - Potting), "Epoxy Resin", furnished as two liquid components.</b>											
<a href="#">9824(#)</a> A/B	ALL	0.78	V-0	-	-	90	90	90			

(#) - May be replaced with two alphanumeric characters designating color.  
Marking: Company name and material designation on container, wrapper or finished part.

[Last Updated](#) on 2008-08-26

**QMFZ2.E130155  
Plastics - Component**



Plastics - Component

[Guide Information](#)

NAN YA PLASTICS CORP  
PLASTICS 4TH DIV  
3RD FL  
201 TUNG HWA NORTH RD  
TAIPEI, TAIWAN

E130155

									H	D	
		Min.		H	H	R T I			V	4	C
		Thk	Flame	W	A	Elec	Mech		T	9	T
Material Dsg	Color	mm	Class	I	I		Imp	Str	R	5	I
<b>Polybutylene Terephthalate (PBT), furnished as pellets.</b>											
<b>1100F, 1101FA, 1101FB, 1110F, 1111FA, 1111FB</b>											
<b>1403G3</b>	<b>ALL</b>	<b>0.75</b>	<b>V-0</b>	<b>4</b>	<b>0</b>	<b>130</b>	<b>130</b>	<b>140</b>	<b>—</b>	<b>—</b>	<b>—</b>

- (a)-May be followed by a number or letter indicating glass fiber content 5-30%.
  - (b)-May be followed by a number or letter indicating glass fiber content 15-30%.
  - (c)-May be followed by a letter indicating glass fiber content 1-45%.
  - (d)-May be followed by a letter indicating glass fiber content 1-25%.
  - (e)-May be followed by a letter indicating glass fiber content 1-30%.
  - (f1)-Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.
  - (g)-May be followed by a letter indicating glass fiber content 15-45%.
  - (h)-May be followed by a letter indicating glass fiber content 1-50%
- Marking: Company name and material designation on container, wrapper or finished part.