

# POLYPROPYLENE FILM CAPACITOR

 Type **APS**

## Features

- Suitable for snubber circuits, small watts resonant circuits.
- Protected against moisture and solvent through our original epoxy resin vacuum impregnation.
- Temperature characteristic of capacitance is negative.
- Tangent of loss angle is very low, with an excellent long stability.

## Specifications

Temp range	-40 to +85°C
Rated Voltage	100V.d.c.,250V.d.c.,400V.d.c
Capacitance	0.00010 to 0.22 $\mu$ F (E-24)
Cap.tolerance	$\pm 1\%$ (F), $\pm 2\%$ (G), $\pm 5\%$ (J)
Tangent of angle	$C \leq 0.10\mu\text{F}$ 0.0010 or less $C \geq 0.11\mu\text{F}$ 0.0012 or less (at 1kHz)
Insulation resistance	30,000M $\Omega$ or more
Endurance	85°C W.V. $\times$ 140%, 1000hr $\Delta C/C \pm 3\%$ within $\tan \delta C \leq 0.10\mu\text{F}$ 0.0011 or less IR 15,000M $\Omega$ or more $C \geq 0.11\mu\text{F}$ 0.0013 or less
Damp heat	40°C 90 to 95%RH W.V. 1000hr $\Delta C/C \pm 3\%$ within $\tan \delta C \leq 0.10\mu\text{F}$ 0.0012 or less IR 9,000M $\Omega$ or more $C \geq 0.11\mu\text{F}$ 0.0014 or less

Straight lead type	
Style	
Cap range	102 to 224

Single formed lead type			
Style			
Cap range	123 to 124	134 to 224	101 to 113

For a pitch space(F) of the taping specification, refer to "TAPING DIMENSIONS"

## Caution

- APS is sensitive for heating due to its construction and film material.  
Refer to instructions for soldering handling.

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## Dimensions(mm)

Capacitors Code	Cap(μF)	APS 100V.dc						APS 250V.dc						APS 400V.dc							
		W	H	T	P	F	φd	W	H	T	P	F	φd	W	H	T	P	F	φd		
101	0.00010	6.0	9.0	4.0	3.5	5.0	0.5	6.0	9.0	4.0	3.5	5.0	0.5								
121	0.00012	6.0	9.0	4.0	3.5	5.0	0.5	6.0	9.0	4.0	3.5	5.0	0.5								
151	0.00015	6.0	9.0	4.0	3.5	5.0	0.5	6.0	9.0	4.0	3.5	5.0	0.5								
181	0.00018	6.0	9.0	4.0	3.5	5.0	0.5	6.0	9.0	4.0	3.5	5.0	0.5								
221	0.00022	6.0	8.5	3.5	3.5	5.0	0.5	6.0	8.5	3.5	3.5	5.0	0.5								
271	0.00027	6.0	8.5	3.5	3.5	5.0	0.5	6.0	8.5	3.5	3.5	5.0	0.5								
331	0.00033	6.0	8.5	3.5	3.5	5.0	0.5	6.0	8.5	3.5	3.5	5.0	0.5								
391	0.00039	6.0	8.5	3.5	3.5	5.0	0.5	6.0	8.5	3.5	3.5	5.0	0.5								
471	0.00047	6.0	8.5	3.5	3.5	5.0	0.5	6.0	8.5	3.5	3.5	5.0	0.5								
561	0.00056	6.0	8.5	3.5	3.5	5.0	0.5	6.0	8.5	3.5	3.5	5.0	0.5								
681	0.00068	6.0	8.5	3.5	3.5	5.0	0.5	6.0	8.5	3.5	3.5	5.0	0.5								
821	0.00082	6.0	8.5	3.5	3.5	5.0	0.5	6.0	8.5	3.5	3.5	5.0	0.5								
102	0.0010	6.0	8.5	3.5	3.5	5.0	0.5	6.0	8.5	3.5	3.5	5.0	0.5	7.2	10.0	4.5	5.0	5.0	5.0	0.5	0.5
122	0.0012	6.0	8.5	3.5	3.5	5.0	0.5	6.5	8.5	4.0	3.5	5.0	0.5	7.5	10.0	4.5	5.0	5.0	5.0	0.5	0.5
152	0.0015	6.0	8.5	3.5	3.5	5.0	0.5	7.0	8.5	4.0	3.5	5.0	0.5	7.5	10.0	4.5	5.0	5.0	5.0	0.5	0.5
182	0.0018	6.0	8.5	3.5	3.5	5.0	0.5	6.0	8.5	4.0	3.5	5.0	0.5	7.4	10.5	4.5	5.0	5.0	5.0	0.5	0.5
222	0.0022	6.0	8.5	3.5	3.5	5.0	0.5	6.3	8.5	4.0	3.5	5.0	0.5	7.4	10.5	4.5	5.0	5.0	5.0	0.5	0.5
272	0.0027	6.0	8.5	3.5	3.5	5.0	0.5	6.5	8.5	4.0	3.5	5.0	0.5	7.5	13.0	4.5	5.0	5.0	5.0	0.5	0.5
332	0.0033	6.0	8.5	3.5	3.5	5.0	0.5	7.0	8.5	4.0	3.5	5.0	0.5	7.5	13.0	4.5	5.0	5.0	5.0	0.5	0.5
392	0.0039	6.0	8.5	3.5	3.5	5.0	0.5	7.0	10.0	4.0	3.5	5.0	0.5	8.0	13.0	5.0	5.0	5.0	5.0	0.5	0.5
472	0.0047	6.0	8.5	3.5	3.5	5.0	0.5	7.5	10.5	4.0	3.5	5.0	0.5	8.0	13.0	5.0	5.0	5.0	5.0	0.5	0.5
562	0.0056	6.0	8.5	3.5	3.5	5.0	0.5	8.0	11.0	4.5	3.5	5.0	0.5	8.2	13.5	5.0	5.0	5.0	5.0	0.5	0.5
682	0.0068	6.0	8.5	3.5	3.5	5.0	0.5	8.0	11.0	5.0	3.5	5.0	0.5	8.2	13.5	5.0	5.0	5.0	5.0	0.5	0.5
822	0.0082	7.0	9.5	4.0	3.5	5.0	0.5	8.0	11.0	5.5	3.5	5.0	0.5	9.0	13.5	5.0	5.0	5.0	5.0	0.5	0.5
103	0.010	7.0	9.5	4.0	3.5	5.0	0.5	8.5	11.0	5.5	3.5	5.0	0.5	9.5	13.5	5.0	5.0	5.0	5.0	0.5	0.5
123	0.012	7.5	10.5	4.0	5.0	5.0	0.5														
153	0.015	7.5	10.5	4.5	5.0	5.0	0.5														
183	0.018	8.0	11.0	5.0	5.0	5.0	0.5														
223	0.022	8.0	11.0	5.0	5.0	5.0	0.5														
273	0.027	9.0	12.0	5.5	5.0	5.0	0.5														
333	0.033	9.0	12.0	5.5	5.0	5.0	0.5														
393	0.039	10.0	13.0	6.0	7.5	5.0/7.5	0.5														
473	0.047	10.0	13.0	6.0	7.5	5.0/7.5	0.5														
563	0.056	11.0	14.0	6.0	7.5	5.0/7.5	0.5														
683	0.068	11.0	14.0	6.5	7.5	5.0/7.5	0.5														
823	0.082	11.5	14.0	7.0	7.5	5.0/7.5	0.5														
104	0.10	12.0	14.0	7.5	7.5	5.0/7.5	0.5														
124	0.12	13.0	14.0	8.0	7.5	5.0/7.5	0.5														
154	0.15	14.0	19.5	7.5	10.0	5.0/7.5	0.6														
184	0.18	15.0	19.5	7.5	10.0	5.0/7.5	0.6														
224	0.22	15.0	19.5	8.0	10.0	5.0/7.5	0.6														

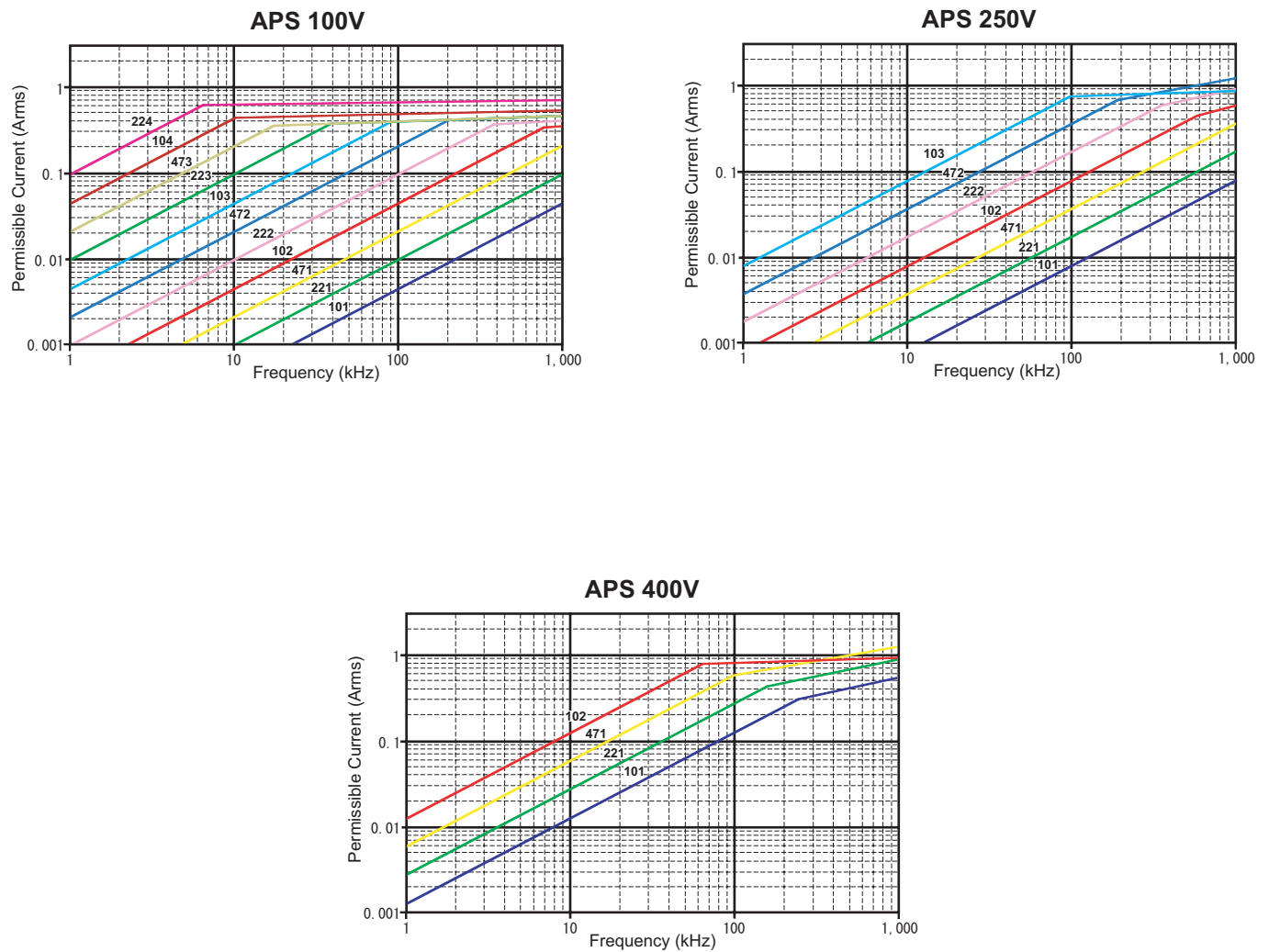
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Standard quantity packed in a box

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## Characteristics of permissible current to frequency



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