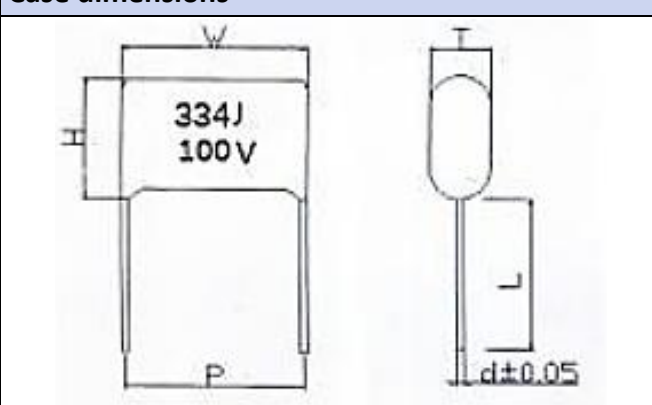


## Metalized Polyester Film Capacitor



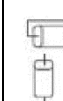
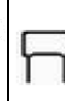



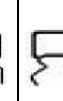
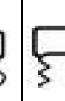
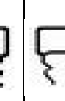



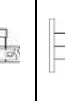
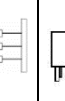
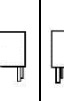
Primary characteristics		
Parameter	Value	Unit
Capacitance	330	nF
Rated voltage	100	VDC

### Features

- Pb-free and RoHS compliant
- Plastic case according to UL94V-0
- Small size, good self-healing effect

Case dimensions						
						
Unit	W	H	T	P	φd	L
mm	9.5 MAX	8.0 MAX	4.5 MAX	7.5 ±0.8	0.6 ±0.05	-

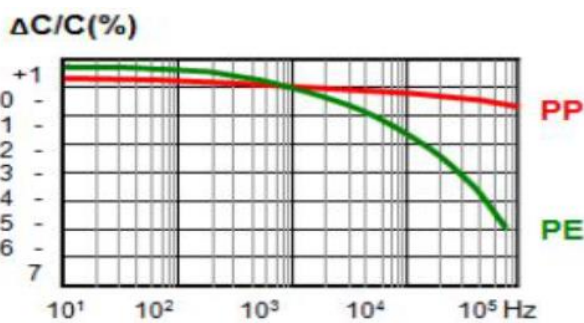
Part numbering system										
AFC	334	J		1		03P		00	U	T
Series code	Capacitance $33\text{pF} \times 10^4 = 330\text{nF}$	Capacitance tolerance		Rated voltage marking		Lead width		Lead length	Lead configuration	
		J	±5%	1	100V	01P	2.5mm	-	See: <a href="#">lead configuration</a> below	
		K	±10%			02P	5.0mm		B	Bulk
		M	±20%			03P	7.5mm		T	Tape
						nP	n x 2.5mm			

Lead configuration																
Lead type																
Code	L	M	N	B	C	D	E	F	G	H	K	T	U	W	R	S

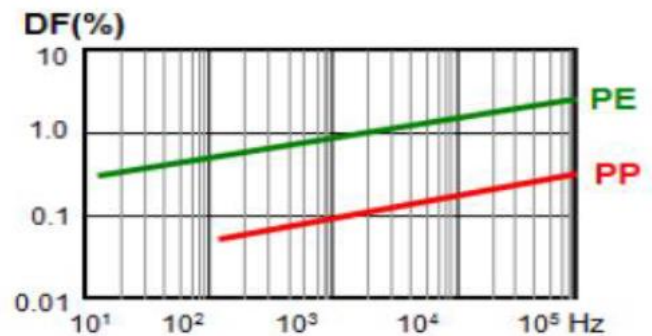
Specifications			
Parameter		Value	Unit
Operating temperature range		-55 ~ 85 typ.; 110 max	°C
Climatic category		55/110/56	
Standard capacitance (C <sub>R</sub> )		330	nF
Capacitance tolerance		±5	%
Rated voltage		100	VDC
Insulation resistance @20°C, 1min; @10VDC	C≤0.33μF	≥3000	MΩ
	C>0.33μF	≥1000	S

**Frequency characteristics**

Capacitance vs. frequency

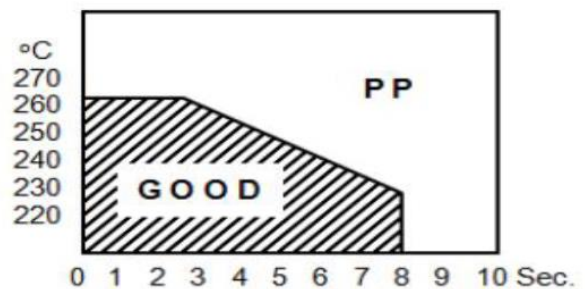
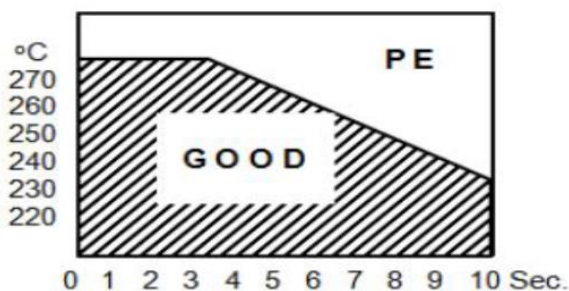




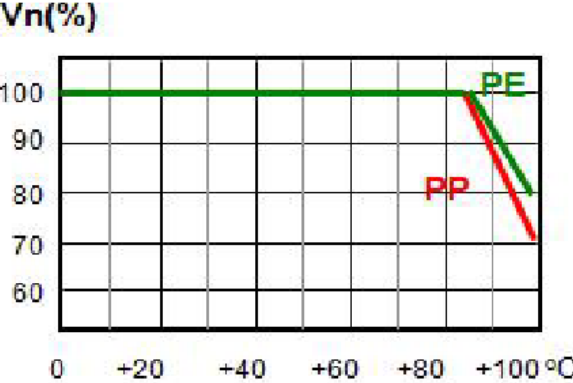
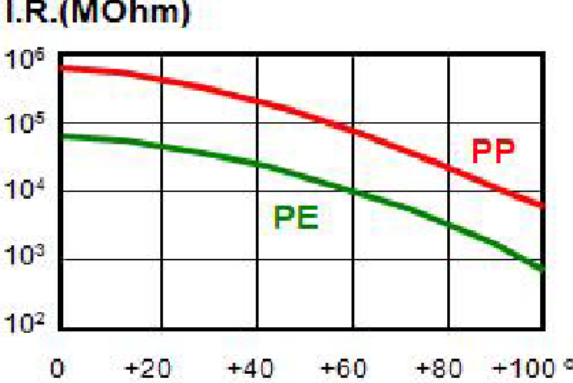
Dissipation factor vs. frequency



**Soldering characteristic**

Soldering temperature vs time



Temperature characteristic	
<p>Capacitance vs. temperature</p>  <p><b>ΔC/C(%) at 1KHz</b></p> <p>The graph shows the percentage change in capacitance (ΔC/C) at 1 kHz for PE (green line) and PP (red line) dielectrics. The x-axis represents temperature from -50°C to +100°C. The y-axis ranges from -10% to +10%. PE shows a positive change, while PP shows a negative change.</p>	<p>Dissipation factor vs. temperature</p>  <p><b>DF(%) at 1KHz</b></p> <p>The graph shows the dissipation factor (DF) at 1 kHz for PE (green line) and PP (red line) dielectrics. The x-axis represents temperature from -50°C to +100°C. The y-axis ranges from 0 to 1.2. PE shows a peak at low temperatures and a minimum around 75°C, while PP remains relatively constant and low.</p>
<p>Operating voltage vs. temperature</p>  <p><b>Vn(%)</b></p> <p>The graph shows the operating voltage (Vn) in percent for PE (green line) and PP (red line) dielectrics. The x-axis represents temperature from 0°C to +100°C. The y-axis ranges from 60% to 100%. Both materials maintain 100% voltage until approximately 90°C, after which they drop sharply.</p>	<p>IR vs. temperature</p>  <p><b>I.R.(MΩm)</b></p> <p>The graph shows the insulation resistance (I.R.) in MΩm for PE (green line) and PP (red line) dielectrics. The x-axis represents temperature from 0°C to +100°C. The y-axis is logarithmic, ranging from 10<sup>2</sup> to 10<sup>6</sup>. Both materials show a decrease in I.R. as temperature increases, with PP maintaining a higher I.R. than PE.</p>

Ordering information			
Part Number	Package	Shipping Quantity	Box dimensions
AFC 334J103P00UT	9.5 x 8.0 x 4.5mm	1500 pcs / small box 4500 pcs / box	-

## Disclaimer

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