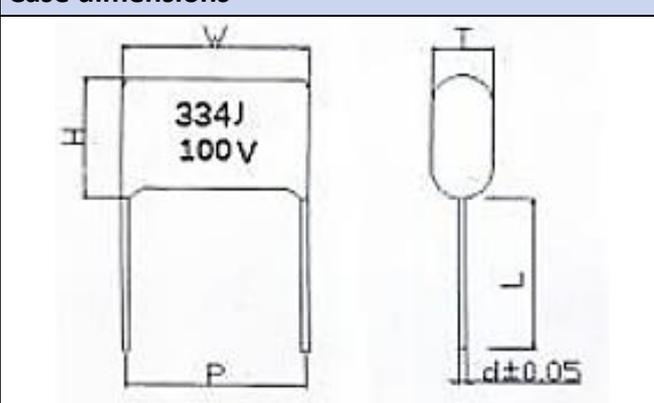


Metalized Polyester Film Capacitor

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	8.0 MAX	7.5 MAX	5.0 MAX	5.0 ±0.5	0.6 ±0.05	-

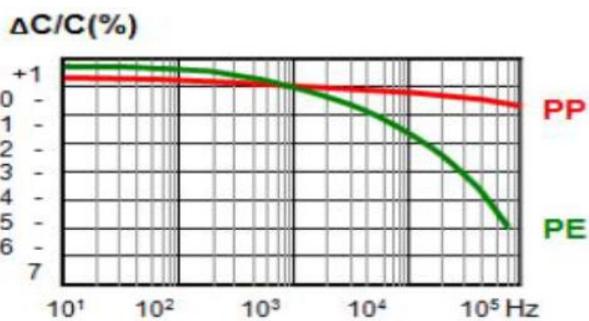
Part numbering system										
AFC	334	J		1		02P		00	U	T
Series code	Capacitance $33\text{pF} \times 10^4 = 330\text{nF}$	Capacitance tolerance		Rated voltage marking		Lead width		Lead length	Lead configuration	Packing
		J	±5%	1	100V	01P	2.5mm	-	See: lead configuration below	B Bulk
		K	±10%			02P	5.0mm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

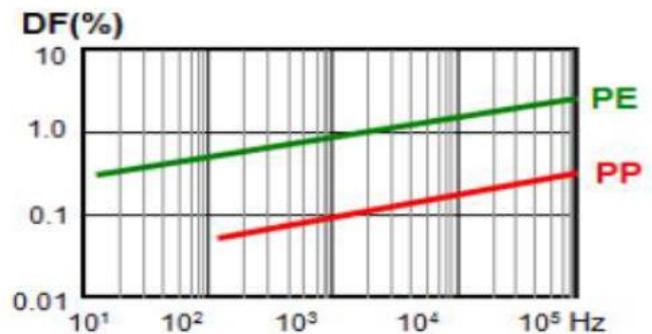
Specifications			
Parameter		Value	Unit
Operating temperature range		-55 ~ 85 typ.; 110 max	°C
Climatic category		55/110/56	
Standard capacitance (C _R)		330	nF
Capacitance tolerance		±5	%
Rated voltage		100	VDC
Insulation resistance @20°C, 1min; @10VDC	C≤0.33μF	≥3000	MΩ
	C>0.33μF	≥1000	S

Frequency characteristics

Capacitance vs. frequency

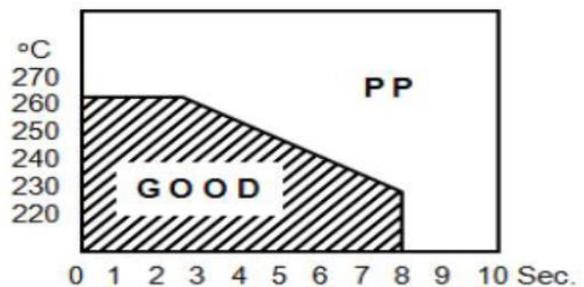
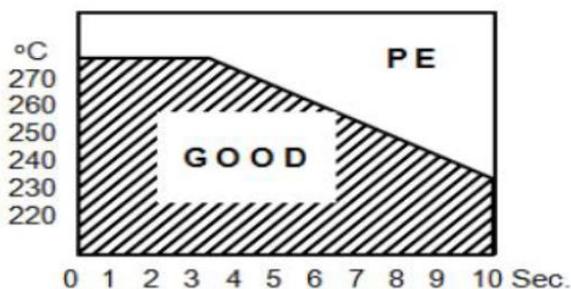


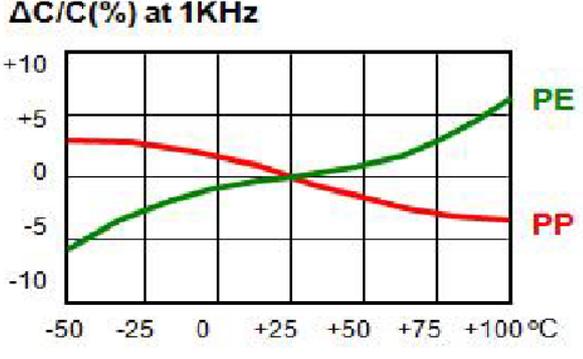
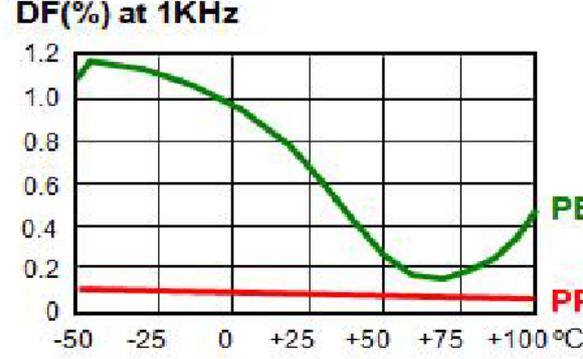
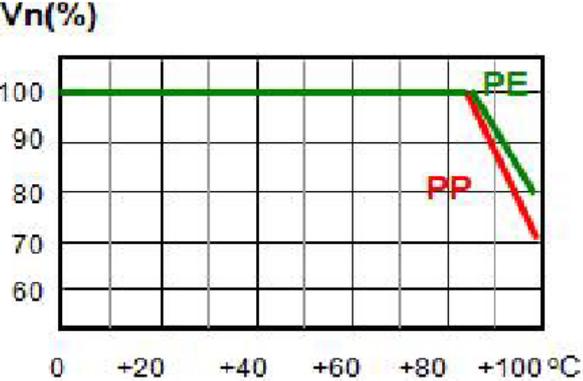
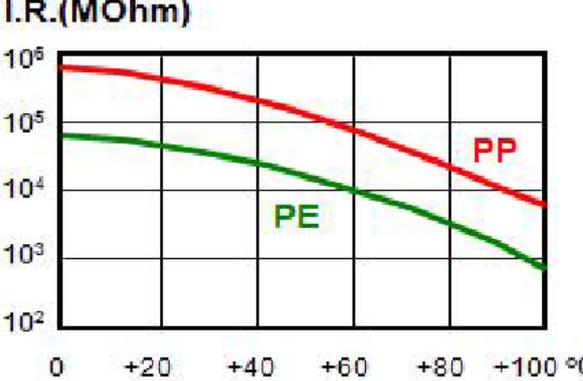
Dissipation factor vs. frequency



Soldering characteristic

Soldering temperature vs time



Temperature characteristic	
<p>Capacitance vs. temperature</p>  <p>ΔC/C(%) at 1KHz</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, starting at approximately -7% at -50°C and reaching +7% at +100°C. PP shows a negative change, starting at approximately +3% at -50°C and reaching -5% at +100°C.</p>	<p>Dissipation factor vs. temperature</p>  <p>DF(%) at 1KHz</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 of approximately 1.1 at -25°C, a minimum of approximately 0.15 at +75°C, and a secondary rise to approximately 0.5 at +100°C. PP remains relatively constant and low, around 0.1 across the entire temperature range.</p>
<p>Operating voltage vs. temperature</p>  <p>Vn(%)</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 dielectrics maintain 100% operating voltage until approximately +85°C. Above this temperature, PE drops to about 80% and PP drops to about 70% at +100°C.</p>	<p>IR vs. temperature</p>  <p>I.R.(MΩm)</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 10² to 10⁶. Both dielectrics show a decrease in I.R. as temperature increases. At 0°C, PE is at approximately 10^{4.5} MΩm and PP is at approximately 10^{5.5} MΩm. At +100°C, PE is at approximately 10^{2.5} MΩm and PP is at approximately 10^{3.5} MΩm.</p>

Ordering information			
Part Number	Package	Shipping Quantity	Box dimensions
AFC 334J102P00UT	8.0 x 7.5 x 5.0mm	1500 pcs / small box 4500 pcs / box	-

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