

# Ceramic Y Capacitors

UL/cUL File #E197475

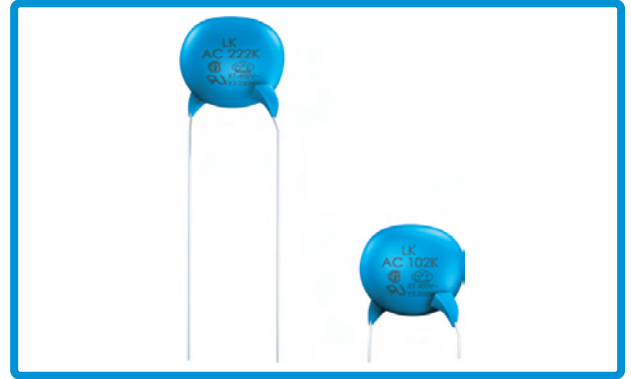


AH/AC Series

MERITEK

## FEATURES

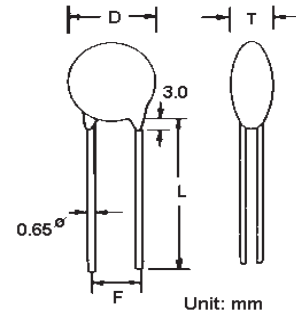
- Compact size
- Cost effective products
- Ideal for across-the-line applications
- Safety standard recognized for AC applications



## SPECIFICATIONS

1. Capacitance Range: 100pF to 10000pF
2. Capacitance Tolerance:  $\pm 10\%$ ,  $\pm 20\%$ ,  $+80\%/-20\%$
3. Operating Temperature Range:  $-25^{\circ}\text{C}$  to  $85^{\circ}\text{C}$
4. Temperature Coefficient ( $\Delta C$  Max):  $\pm 10\%$ (Y5P),  $+30\%/-80\%$ (Y5V)
5. Voltage Rating: 250VAC - UL/cUL  
250VAC (Y1/Y2), 400VAC (X1) - European Standards
6. Dissipation Factor ( $\tan \delta$ ): Y5P=2.5% max @  $20^{\circ}\text{C}$ , 1KHz,  $1\pm 0.2\text{Vrms}$   
Y5V=5.0% max @  $20^{\circ}\text{C}$ , 1KHz,  $1\pm 0.2\text{Vrms}$
7. Insulation Resistance: 10000M $\Omega$  at 500VDC for 60 seconds
8. Dielectric Strength: 2600VAC for 60 seconds

**AH/AC** are specifically designed for AC applications and meet the safety requirements of various safety standard agencies. They are ideal for across-the-line and line bypass applications



## PART NUMBERING SYSTEM

<b>Type Class</b>		<b>AC</b>	<b>09</b>	<b>F</b>	<b>102</b>	<b>M</b>	<b>L7</b>	<b>TA</b>
Code	AH	AC						
Class	X1/Y1	X1/Y2						
<b>Part Diameter (mm)</b>								
<b>Ceramic Dielectric</b>								
Code	B	F	E					
Ceramic dielectric	Y5P	Y5V	Y5U					
<b>Capacitance</b>								
Code	101	102	222	472	103			
Capacitance (pF)	100	1000	2200	4700	10000			
<b>Tolerance</b>								
Code	M	Z	K					
Tolerance	$\pm 20\%$	$+80\%/-20\%$	$\pm 10\%$					
<b>Lead configuration</b>								
AH Type Lead code	AC Type Lead code	Configuration and Dimensions						
		Kinked	Lead space(F)	Lead length(L)				
L0	L0	Straight	10.0mm	25mm min				
L7	L7	Straight	7.5mm	25mm min				
D0	D0	Front & back	10.0 mm	4.0 $\pm$ 0.5 min				
	D7	Front & back	7.5 mm	4.0 $\pm$ 0.5 min				
B0	B0	Inside	10.0 mm	4.0 $\pm$ 0.5 min				
	B7	Inside	7.5 mm	4.0 $\pm$ 0.5 min				
	S0	Straight	10.0 mm	4.5 $\pm$ 1.0 min				
	S7	Straight	7.5 mm	4.5 $\pm$ 1.0 min				
	X7	Outside	7.5 mm	4.0 $\pm$ 0.5 min				
<b>Packaging Code</b>								
Code	TA	(BLANK)						
Packaging Code	Tape & Ammo	Bulk						

Specifications are subject to change without notice.

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## AH Type-Class X1/Y1

Part No	Temp Char	Cap	Tol	Dimension (mm)			
				D max	T max	F	Wire Dia
AH06B101K	B (Y5P)	100	±10%	7.0	5.0	10.0	0.60mm
AH06B151K		150		7.0			
AH06B221K		220		7.0			
AH06B331K		330		7.0			
AH07B471K		470		8.0			
AH08B681K		680		9.0			
AH09B101K		100		9.5	8.0	10.0	0.65mm
AH09B151K		150		9.5			
AH09B221K		220		9.5			
AH09B331K		330		9.5			
AH09B471K		470		9.5			
AH10B561K		560		10.5			
AH10B681K		680		10.5			

AH09E102M	E (Y5U)	1000	±20%	9.5	8.0	10.5	0.65mm
AH12E152M		1500		12.5			
AH12E222M		2200		12.5			
AH14E332M		3300		14.5			
AH16E392M		3900		16.5			
AH16E472M		4700		16.5			

# Ceramic Y Capacitors

AH/AC Series

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## AC Type-Class X1/Y2

Part No	Temp Char	Cap	Tol	Dimension (mm)				
				D max	T max	F	Wire Dia	
AC08B101K	B (Y5P)	100	±10%	9.0	5.0	7.5	0.62mm	
AC08B151K		150		9.0				
AC08B221K		220		9.0				
AC08B331K		330		9.0				
AC08B471K		470		9.0				
AC08B561K		560		9.0				
AC09B101K	B (Y5P)	100	±10%	9.5	6.0	7.5	0.65mm	
AC09B151K		150		9.5				
AC09B221K		220		9.5				
AC09B331K		330		9.5				
AC09B471K		470		9.5				
AC10B561K		560		10.5				
AC10B681K		680		10.5				
AC10B102K		1000		10.5				7.5,10.0

AC09F102M	E (Y5V)	1000	±20%	9.5	6.0	7.5	0.65mm
AC09F152M		1500		9.5			
AC10F222M		2200		10.5			
AC10F332M		3300		10.5			
AC13F392M		3900		13.5			
AC13F472M		4700		13.5			

**Lead Code:** Please consult part number explanation for detailed lead space and lead length information.