

Ceramic Y Capacitors

UL/cUL File #E197475

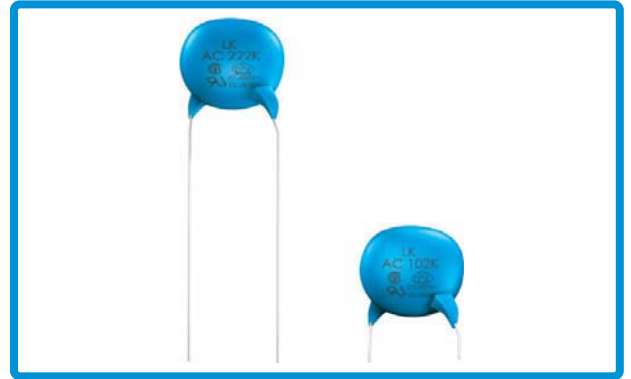


AH/AC Series

MERITEK

FEATURES

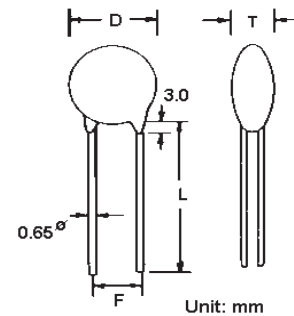
- Compact size
- Cost effective products
- Ideal for across-the-line applications
- Safety standard recognized for AC applications



SPECIFICATIONS

1. Capacitance Range: 100pF to 10000pF
2. Capacitance Tolerance: $\pm 10\%$, $\pm 20\%$, $+80\%/-20\%$
3. Operating Temperature Range: -25°C to 85°C
4. Temperature Coefficient (ΔC 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°C , 1KHz, $1\pm 0.2\text{Vrms}$
Y5V=5.0% max @ 20°C , 1KHz, $1\pm 0.2\text{Vrms}$
7. Insulation Resistance: 10000M Ω 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

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

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AH Type-Class X1/Y1

Part No	Temp Char	Cap	Tol	Dimension (mm)			
				D max	T max	F	Wire Dia
AH09B101K	B (Y5P)	100	±10%	9.5	8.0	10.0	0.62mm
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	0.62mm
AH12E152M		1500		12.5			
AH12E222M		2200		12.5			
AH14E332M		3300		14.5			
AH16E392M		3900		16.5			
AH16E472M		4700		16.5			

AC Type-Class X1/Y2

Part No	Temp Char	Cap	Tol	Dimension (mm)			
				D max	T max	F	Wire Dia
AC09B101K	B (Y5P)	100	±10%	9.5	6.0	7.5	0.62mm
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			

AC09F102M	F (Y5V)	1000	±20%	9.5	6.0	7.5	0.62mm
AC09F152M		1500		9.5			
AC10F222M		2200		10.5			
AC10F332M		3300		10.5			
AC13F392M		3900		13.5			
AC15F103M		10000		16.0			
						10.0	

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



APPROVAL STANDARDS:

Agencies	UL	CSA	VDE, SEMKO, NEMKO, DEMKO, FIMKO, SEV, KEMA
Standard No.	UL1414	C22.1No.1	IEC384-14 2 nd Edition (1993)