



Type-Class Code

Code	Class	Code	Class
AH	X1/Y1	AC	X1/Y2

Part Diameter Code (mm)

Code	Diameter	Code	Diameter
9	9.5mm max	13	13.5mm max
10	10.5mm max.	14	14.5mm max.
12	12.5mm max.	16	16.5 & 18.5 mm max.

Ceramic Dielectric Code

B=Y5P F=Y5V E=Y5U

Capacitance Code

Code	Capacitance(pF)
101	100
102	1000
222	2200
472	4700
103	10000

Tolerance Code

Code	Tolerance
K	±10%
M	±20%

Lead Configuration Code-Bulk & Taping Package

AH Type Lead Code	AC Type Lead Code	Configuration and Dimension		
		Kinked	Lead Space (F)	Lead Length (L)
L0	L0	Straight	10.0mm	25mm Min.
	L7	Straight	7.5mm	25mm Min.
D0	D0	Front & Back	10.0mm	4.0±0.5mm
	D7	Front & Back	7.5mm	4.0±0.5mm
B0	B0	Inside	10.0mm	4.0±0.5mm
	B7	Inside	7.5mm	4.0±0.5mm
	S0	Straight	10.0mm	4.5±1.0mm

Ceramic Safety Capacitors

AH Type - Class X1/Y1

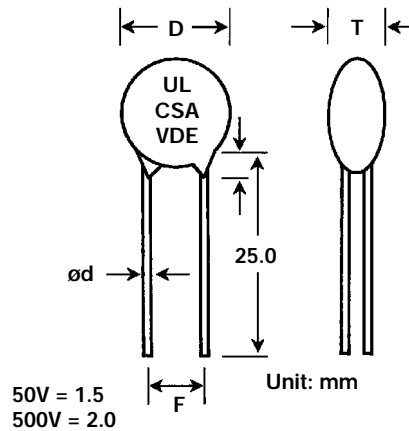
AC Type - Class X1/Y2

Introduction:

These Safety Recognized Ceramic Capacitors 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 by-pass applications.

Features:

- Compact size
- Cost effective products
- Ideal for across the line applications
- Safety Standard Recognized for AC applications



Approval Standards

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

General Specifications

Capacitance Range	100pF to 10000pF
Capacitance Tolerance	±10%, ±20%
Operating Temperature Range	-25~+85
Temperature Coefficient (C Max.)	10% (Y5P), +30 -80% (Y5V), +20-55% (Y5U)
Voltage Resistance	250VAC & 400 VAC
Dissipation Factor (tanδ)	Y5P = 2.5% Max. @20, 1KHz, 1±0.2Vrms Y5U = 2.5% Max. @20, 1KHz, 1±0.2Vrms Y5V = 5.0% Max. @20, 1KHz, 1±0.2Vrms
Insulation Resistance	10000M at 500VDC for 60 Seconds
Dielectric Strength	2600VAC for 60 Seconds (AC) 4000VAC for 60 Seconds (AH)

Ceramic Safety Capacitors



AH Type - Class X1/Y1

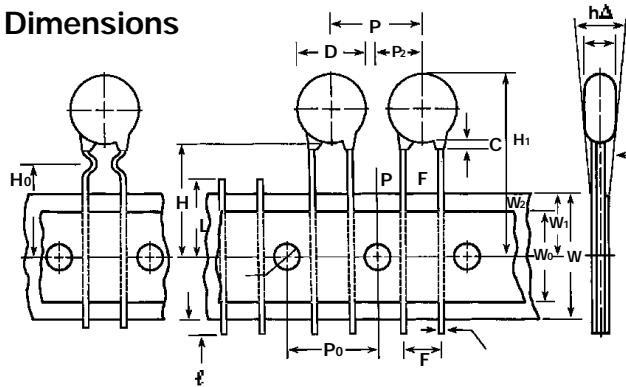
Part Number	Temp. Char.	Cap.	Tol.	Dimension (mm)			
				D Max.	TMax.	F	Wire. Dia. ød
AH09B101K	B (Y5P) ±10%	100	±10%	9.5	8.0	10.0	0.65mm
AH09B151K		150		9.5			
AH09B221K		220		9.5			
AH09B331K		330		9.5			
AH09B471K		470		9.5			
AH09B561K		560		10.5			
AH09B681K		680		10.5			
AH09E102M	F (Y5U) +20% -55%	1000	±20%	9.5	8.0	10.0	0.65mm
AH09E152M		1500		12.5			
AH09E222M		2200		12.5			
AH09E332M		3300		14.5			
AH09E392M		3900		16.5			
AH09E472M		4700		16.5			

AC Type - Class X1/Y2

Part Number	Temp. Char.	Cap.	Tol.	Dimension (mm)			
				D Max.	TMax.	F	Wire. Dia. ød
AC09B101K	B (Y5P) ±10%	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		7.5, 10.0	
AC09B561K		560		10.5			
AC09B681K		680		10.5		7.5	
AC09B102K		1000		11.0			
AC09F102M	F (Y5V) +30% -80%	1000	±20%	9.5	6.0	7.5	0.65mm
AC09F152M		1500		9.5			
AC09F222M		2200		10.5		7.5, 10.0	
AC10F332M		3300		10.5			
AC13F392M		3900		13.5		10.0	
AC13F472M		4700		13.5			
AC16F103M		10000		18.5			

Ceramic Safety Capacitors

Taping Specification and Dimensions



RGA P/N		AC-F	AC-T
Item	Symbol	Dimensions(mm)	Dimensions(mm)
Pitch of Component	P	15	30
Pitch of Sprocket Hold	P0	15.0±0.3	15.0±0.3
Lead Spacing	F	7.5±1.0	7.5±0.3
Length from Hole Center to Component Center	P2	7.5±1.5	7.5±1.5
Length from Hole Center to Lead	P1	3.75±1.0	3.75±1.0
Body Diameter	D	See the individual product specification.	
Deviation Along Tape, Left to Right	ΔS	0±2.0	0±2.0
Carrier Tape Width	W	18.0±0.5	218.0±0.5
Position of Sprocket Hole	W1	9.0±0.5	9.0±0.5
Lead Distance Between Reference and Bottom Planes	H	20.0±1.5	20.0±1.5
Protrusion Length	l	+0.5~-1.0	+0.5±1.5
Diameter of Sprocket Hole	D0	4.0±0.1	4.0±0.1
Lead Diameter	d	0.65	0.65
Total Tape Thickness	t1	0.6±0.3	0.6±0.3
Total Thickness, Tape and Lead Wire	t2	1.5max.	1.5max.
Deviation Across Tape	Δh1	2.0max	2.0max
	Δh2		
Portion to Cut in Case of Defect	L	11.0±0-1	11.0±0-1
Hold-down Tape Width	W0	11.5min.	11.5min.
Hold-Down Tape Distortion	W2	1.5±1.5	1.5±1.5
Coating Extension on Leads	e	3.0max.	3.0max.
Body Thickness	t	See the individual product specification.	

* For Tape & Reel and Tape & Box packaging specifications, please consult factory.