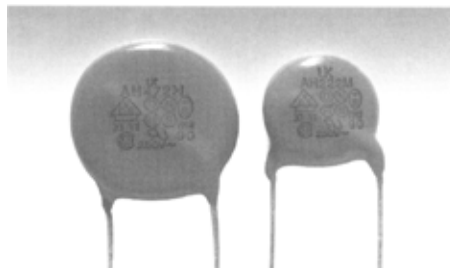


Introduction :

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
- Coated with flame-retardant epoxy resin
(equivalent to UL94V-0 standards)
- RoHS Compliance
- Halogen free products are available



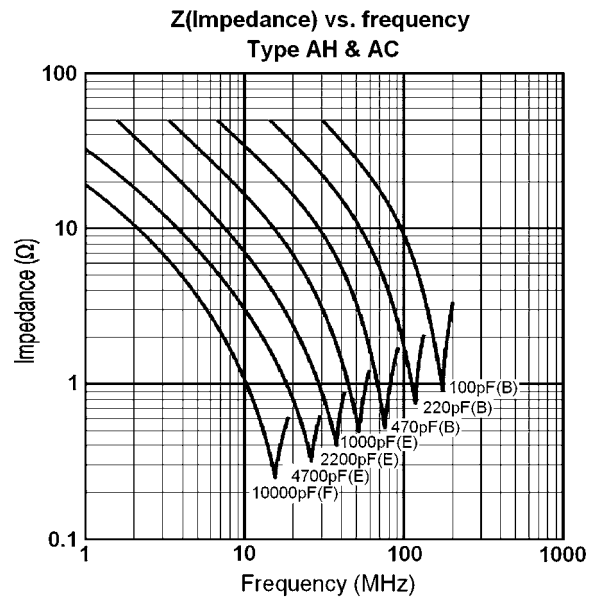
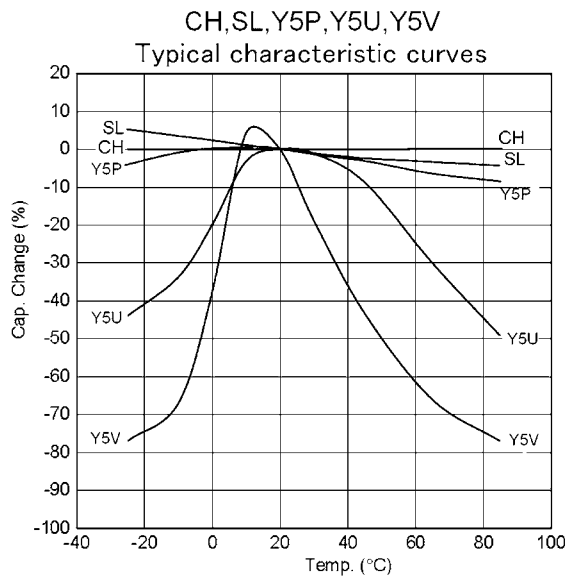
Approval standards :

Agencies	UL	CSA	CQC	KTL	VDE, SEMKO, NEMKO, DEMKO, FIMKO, SEV, KEMA
Standard No.	UL60384-14: 2009	E60384-14: 09	GB/T 14472-1998	K60384-14	IEC384-14 3rd Edition (2005)
Rated Voltage	0AC = AC(X1-400V~/Y2-250V~) 1AC = AC(X1-440V~/Y2-300V~)(only for VDE/CB/ENEC) 0AH = AH(X1-400V~/Y1-250V~) 1AH = AH(X1-400V~/Y1-400V~)				
Capacitance Value(pF)	AH: 2 ~ 4700 AC: 2 ~10000				

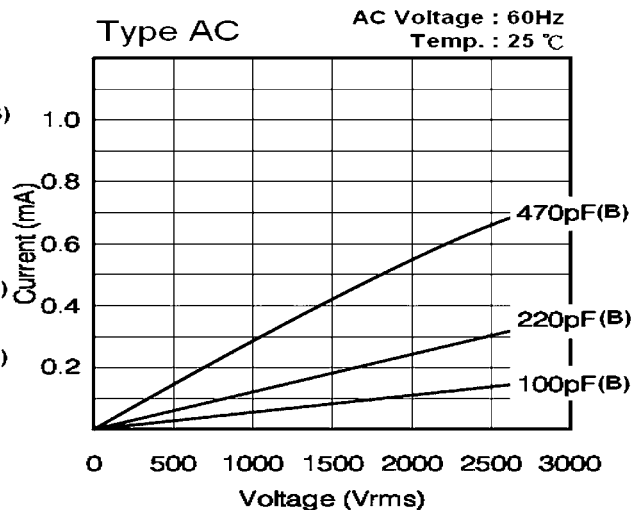
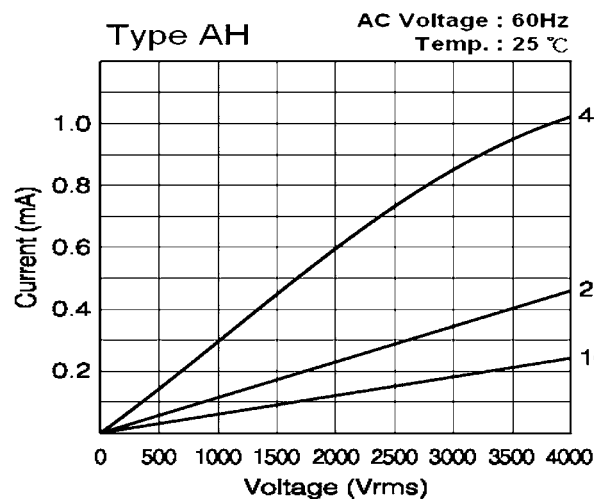
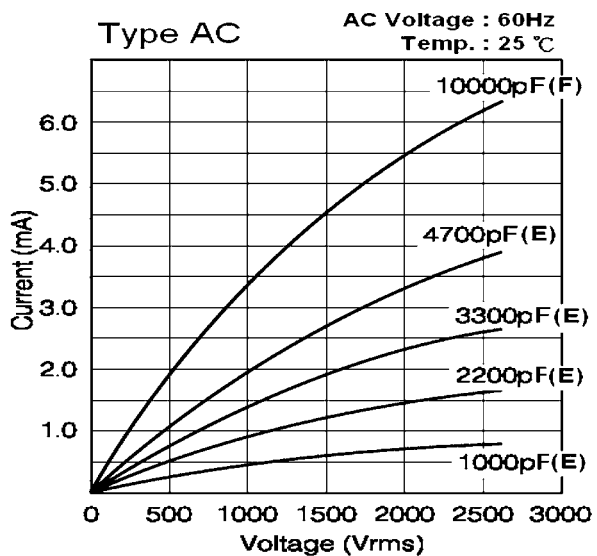
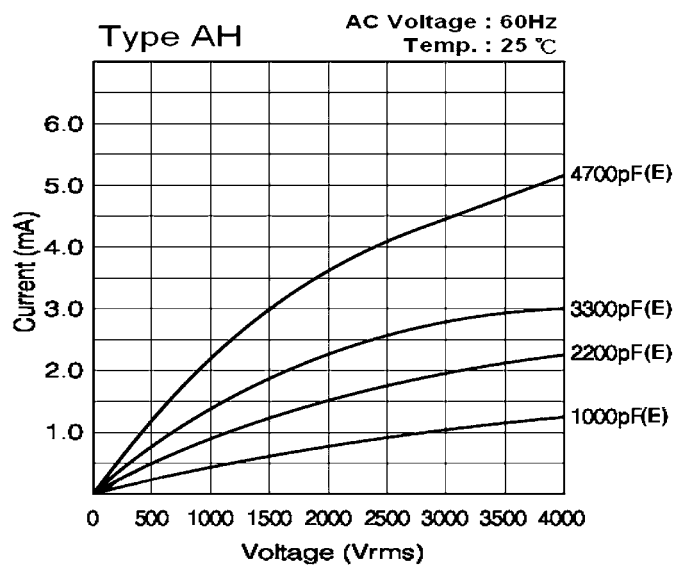
General specification :

Capacitance Range	AH:2pF to 4700pF; AC:2pF to 10000pF
Capacitance Tolerance	±0.25pF, ±0. 5pF, ±5%, ±10%, ±20%
Operating Temperature Range	-25°C~ +125°C
Temperature Coefficient (ΔC Max)	±60ppm/°C(CH), -1000~+350ppm/°C(SL), ±10% (Y5P), +30~80% (Y5V), +20~55% (Y5U)
Voltage Resistance	AH Type: X1:400Vac / Y1:400Vac or 250Vac ; AC Type: X1:400Vac or 440Vac / Y2:250VAC or 300Vac
Dissipation Factor(tanδ) or Q	CH&SL: 30pF&above:Q ≥ 1000 Below 30pF:Q ≥ 400+20×C @20°C, 1MHz, 1±0.2Vrms Y5P: tanδ=2.5% Max. @20°C, 1KHz, 1±0.2Vrms Y5U: tanδ=2.5% Max. @20°C, 1KHz, 1±0.2Vrms Y5V: tanδ=5.0% Max. @20°C, 1KHz, 1±0.2Vrms
Insulation Resistance	10000MΩ at 500VDC for 60 Seconds
Dielectric Strength	1500VAC for 60 Seconds (AC TYPE) (For Lead Pitch=5.0mm)
	2600VAC for 60 Seconds (AC TYPE) (For Lead Pitch=7.5 & 10 mm)
	4000VAC for 60 Seconds (AH TYPE) (For Lead Pitch=10.0mm)

Typical characteristic curves & Z(Impedance) vs. frequency :

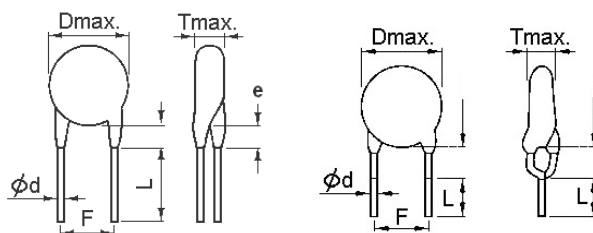


Current vs. Voltage (Leakage Current Characteristics)



AH Type-Class X1/Y1

Part Number	Temp. Char.	Cap.(pF)	Tol.	Dimension (mm)			
				D Max.	T Max.	F±1	Wire Dia. (Ød)
YP *AH101K060	Y5P	100	±10%	7.0	5.0	10.0	0.60 +0.1-0.05
YP *AH151K060		150		7.0			
YP *AH221K060		220		7.0			
YP *AH331K060		330		7.0			
YP *AH471K070		470		8.0			
YP *AH561K080		560		9.0			
YP *AH681K080		680		9.0			
YP *AH102K100		1000		11.0			
YU *AH102M070	Y5U	1000	±20%	8.0	5.0	10.0	0.60 +0.1-0.05
YU *AH152M080		1500		9.0			
YU *AH222M090		2200		10.0			
YU *AH332M110		3300		12.0			
YU *AH392M120		3900		14.0			
YU *AH472M130		4700		14.0			
YV *AH102M060	Y5V	1000	±20%	7.0	5.5	10.0	0.60 +0.1-0.05
YV *AH152M070		1500		8.0			
YV *AH222M080		2200		9.0			
YV *AH332M100		3300		11.0			
YV *AH472M110		4700		12.0			
CH *AH***C060	CH (NPO)	2,3,4,5	±0.25pF	7.0	5.0	10.0	0.60 +0.1-0.05
CH *AH***D060		6,7,8,9,10	±0.5pF	7.0			
CH *AH120J060		12	±5%	7.0			
CH *AH ***J070		15,18,20,22,24,27		8.0			
SL *AH ***J060	SL	15,18,20,22,24, 27,30,33,36,39	±5%	7.0	5.0	10.0	0.60 +0.1-0.05
SL *AH ***J070		47,50,51,56,62		8.0			
SL *AH ***J080		68,75,82		9.0			
SL *AH101J090		100		10.0			



SAFETY STANDARD CERAMIC CAPACITOR

Detail Specification

AC Type-Class X1/Y2

Part Number	Temp. Char.	Cap.(pF)	Tol.	Dimension (mm)			
				D max.	T max.	F±1	Wire Dia. (Ød)
YP *AC101K060	Y5P	100	±10%	7.0	5.0	7.5, 10.0	0.60 +0.1-0.05
YP *AC151K060		150		7.0			
YP *AC221K060		220		7.0			
YP *AC331K060		330		7.0			
YP *AC471K060		470		7.0			
YP *AC561K070		560		8.0			
YP *AC681K070		680		8.0			
YP *AC821K080		820		9.0			
YP *AC102K080		1000		9.0			
YU *AC102M060	Y5U	1000	±20%	7.0	5.0	7.5, 10.0	0.60 +0.1-0.05
YU *AC152M080		1500		9.0			
YU *AC222M080		2200		9.0			
YU *AC332M100		3300		11.0			
YU *AC392M120		3900		13.0			
YU *AC472M120		4700		13.0			
YV *AC102M060	Y5V	1000	±20%	7.0	5.0	7.5, 10.0	0.60 +0.1-0.05
YV *AC152M060		1500		7.0			
YV *AC222M060		2200		7.0			
YV *AC332M080		3300		9.0			
YV *AC392M100		3900		11.0			
YV *AC472M100		4700		11.0			
YV *AC682M120		6800		13.0			
YV *AC103M140		10000		15.0		10.0	
CH *AC *** C060	CH (NPO)	2,3,4,5	±0.25pF	7.0	5.0	7.5, 10.0	0.60 +0.1-0.05
CH *AC *** D060		6,7,8,9,10	±0.5pF	7.0			
CH *AC *** J060		12,15	±5%	7.0			
CH *AC *** J070		18,20,22,24		8.0			
CH *AC *** J080		27,30,33		9.0			
CH *AC *** J090		36,39		10.0			
CH *AC470J100		47		11.0			
SL *AC *** J060	SL	10,12,15,18,20,22 ,24,27,30,33,36, 39,47,50,51	±5%	7.0	5.0	7.5, 10.0	0.60 +0.1-0.05
SL *AC *** J070		52,62,68,75		8.0			
SL *AC820J080		82		9.0			
SL *AC101J090		100		10.0			

 = **Lead Code** : Please consult our part number explanation on page 20 for detail lead space, lead length, and lead configuration.

Mouser Electronics

Authorized Distributor

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Walsin:

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[YP0AH331K060L20C0B](#) [YP0AH471K070BAMD0B](#) [YP0AH471K070L20C0B](#) [YP0AH681K080L20C0B](#)
[YP1AH471K070L20C0B](#) [YU0AH102M070D04A0B](#) [YU0AH102M070L4EB0B](#) [YU0AH152M080DAMD0B](#)
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[YU0AH152M080L20C0H](#) [ZU202102M060B20C6B](#) [ZU202103M130B20C0P](#) [ZU202102M060B20C6P](#)
[ZU202103M130B20C0B](#) [YU0AH152M080D05B0H](#) [YP102472K110HAND5P](#) [YP1AC221K060DAFD7H](#)
[YP1AC221K060L20C7B](#) [YU0AH472M120D04A7H](#) [YV0AH102M160L20C0H](#)