

# **ALUMINUM ELECTROLYTIC CAPACITORS**



# AQ Series

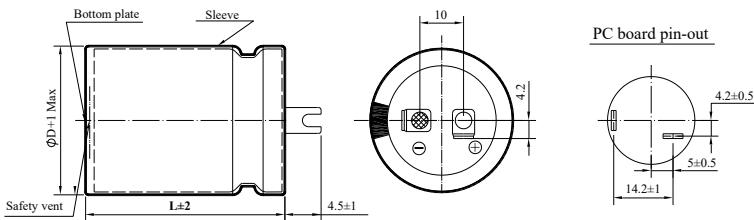
- High ripple current capability
  - High stability, suitable for LCD and PDP



## ◆ SPECIFICATIONS

Item	Performance Characteristics				
Category Temperature Range	-25 ~ +85°C				
Working Voltage Range	400 ~ 450Vdc				
Capacitance Range	330 ~820μF				
Capacitance Tolerance	±20% (at 25°C and 120Hz)				
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V)	400	420	450	
	tanδ(Max)	0.15	0.15	0.15	
Leakage Current	$I = \sqrt{CV}$ or 3000μA, whichever is smaller I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 5 minutes				
Low Temperature Characteristics Impedance Ratio(MAX)	Rated voltage (V)	400	420~450	(at 120Hz)	
	Z(-25°C)/Z(+20°C)	4	8		
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 3,000 hours at 85°C.				
	Capacitance change	$\leq \pm 20\%$ of the initial value			
	Dissipation factor(tanδ)	$\leq 200\%$ of the specified value			
	Leakage current	$\leq$ Specified value			
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 85°C without voltage applied.				
	Capacitance change	$\leq \pm 20\%$ of the initial value			
	Dissipation factor(tanδ)	$\leq 200\%$ of the specified value			
	Leakage current	$\leq 200\%$ of the specified value			
Others	Conforms to JIS-C-5101-4 (1998)				

◆ DIMENSIONS (mm)



#### ◆ PART NUMBER SYSTEM ( Example : 400V 330μF )

Special Request

Size code (35x35)

Terminal code

Capacitance tolerance code (M:±20%)

Capacitance code (330 $\mu$ F)

Voltage code (400V)

Series code (AQ)

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### ◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	Rated Ripple current (mA rms/ 85°C, 120Hz)	Part Number
400 (2G)	330	30×40	1500	AQ2G331MHU3040Y
	330	35×35	1500	AQ2G331MHU3535Y
	360	30×40	1600	AQ2G361MHU3040Y
	360	35×35	1600	AQ2G361MHU3535Y
	390	30×40	1700	AQ2G391MHU3040Y
	390	35×35	1700	AQ2G391MHU3535Y
	420	30×45	1800	AQ2G421MHU3045Y
	420	35×40	1800	AQ2G421MHU3540Y
	440	30×50	1900	AQ2G441MHU3050Y
	440	35×40	1900	AQ2G441MHU3540Y
	470	30×50	2000	AQ2G471MHU3050Y
	470	35×40	2000	AQ2G471MHU3540Y
	510	35×45	2150	AQ2G511MHU3545Y
	560	35×50	2300	AQ2G561MHU3550Y
	620	35×50	2450	AQ2G621MHU3550Y
	680	35×50	2600	AQ2G681MHU3550Y
	820	35×58	2850	AQ2G821MHU3558Y
420 (2S)	330	30×40	1350	AQ2S331MHU3040Y
	330	35×35	1350	AQ2S331MHU3535Y
	360	30×40	1450	AQ2S361MHU3040Y

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	Rated Ripple current (mA rms/ 85°C, 120Hz)	Part Number
420 (2S)	360	35×35	1450	AQ2S361MHU3535Y
	390	30×45	1550	AQ2S391MHU3045Y
	390	35×40	1550	AQ2S391MHU3540Y
	420	30×50	1700	AQ2S421MHU3050Y
	420	35×40	1700	AQ2S421MHU3540Y
	440	30×50	1900	AQ2S441MHU3050Y
	440	35×45	1900	AQ2S441MHU3545Y
	470	35×45	2050	AQ2S471MHU3545Y
	510	35×50	2150	AQ2S511MHU3550Y
	560	35×50	2300	AQ2S561MHU3550Y
	620	35×58	2400	AQ2S621MHU3558Y
	330	30×45	1250	AQ2W331MHU3045Y
	330	35×40	1250	AQ2W331MHU3540Y
	360	30×50	1350	AQ2W361MHU3050Y
	360	35×40	1350	AQ2W361MHU3540Y
450 (2W)	390	35×45	1450	AQ2W391MHU3545Y
	420	35×45	1550	AQ2W421MHU3545Y
	440	35×50	1700	AQ2W441MHU3550Y
	470	35×50	1800	AQ2W471MHU3550Y
	510	35×58	2000	AQ2W511MHU3558Y

### ◆ RIPPLE CURRENT MULTIPLIERS

#### Frequency Multipliers

Vdc	Frequency (Hz)				
	60	120	360	1K	10K
400 ~ 450	0.80	1.00	1.10	1.20	1.30