

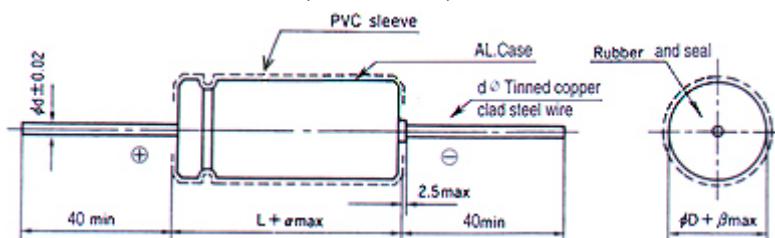


GA Series
General Purpose
Axial Type, 105°C, 2000 Hrs



Item	Characteristics																	
Operating Temperature Range	-40 ~ +105°C										-25 ~ +105C							
Rated Working Voltage Range	6.3 ~ 100V DC										160 ~ 400V DC							
Nominal Capacitance Range	0.47 ~ 15,000μF										0.47 ~ 220μF							
Capacitance Tolerance	±20% (at +20°C, 120Hz)																	
Leakage Current	I ≤ 0.01CV or 3mA , whichever is greater, after 3 minutes.							I ≤ 0.03CV or 20mA , whichever is greater, after 3 minutes.										
Dissipation Factor (tan δ) (120Hz \ +20°C)	Add 0.02 per 1,000μF for more than 1,000μF																	
	Rated Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450			
	Tan δ Max.	0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.07	0.15	0.15	0.15	0.20	0.24	0.24			
Characteristics at Low Temperature (stability at 120Hz)	Add 0.5 per each increase of 1,000μF for > 1,000μF for -25°C / +20°C. Add 1.0 per another 1,000μF for -40°C / +20°C																	
	Rated Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450			
	-25°C / +20°C	4	3	2	2	2	2	2	2	3	3	3	6	6	15			
Load Life	-40°C / +20°C	8	6	4	3	3	3	3	3	-	-	-	-	-	-			
	After 2000hrs application of DC rate working voltage with rated ripple current at +105°C, the capacitor shall meet the following limits when capacitors are restored to 20°C																	
	Leakage Current	≤ the initial specified value																
Shelf Life	Capacitance Change	≤ ±20% of initial measured value																
	Dissipation Factor (tan δ)	≤ 200% of initial specified value																
After storage for 500 hrs at 105°C, with no voltage applied. Post test requirements at 20°C, the capacitors shall meet the same limits as high temperature loading.																		

Dimensions (Units:mm)



D	6.3	8	10	13	16	18
d	0.6	0.6	0.6	0.6	0.8	0.8

Case Size (mm), Maximum Ripple Current mA rms 105°C 120Hz

A-CAP

PART NUMBER SYSTEM FOR ALUMINUM ELECTROLYTIC CAPACITORS



ORDERING INFORMATION

OPTIONAL DIMENSIONS AND LEAD SPACING (IF NOT STANDARD)

(1) S R	(2) 1 0 3	(3) M	(4) 0 1 6	(5) B	(6) 2 0 3 6	(7) G	(8) 10.5			
Series	Capacitance (μ F)	Capacitance Tolerance (EIA Code)	Voltage Code	Packing Code	Diameter x Height (mm)	Lead Spacing	Lead Length (mm) (For lead cut only)			
Series	EXAMPLES:						Can be any custom length. Examples.			
SR	0.1 μ F	R10	Code Tolerance							
SA	0.68 μ F	R68	K $\pm 10\%$	Code Packing Form and Lead						
GR	1.0 μ F	1R0	*M $\pm 20\%$	B Bulk	Code Lead Spacing Denoted By "F" (mm)					
GA	6.8 μ F	6R8	Q -10 ~ +30%	A Ammo Taping	A 1.5 mm					
SS	10 μ F	100	T -10 ~ +50%	T Tape & Reel	B 2.0 mm					
SK	68 μ F	680	Rated Voltage Code							
SL	100 μ F	101	10 V 010	C Lead cut only	C 2.5 mm					
SZ	680 μ F	681	16 V 016	Z Lead formed only	D 3.5 mm					
NR	1000 μ F	102	25 V 025	F Lead cut & formed	E 5.0 mm					
NA	6800 μ F	682	35 V 035	Y Lead kinked	F 7.5 mm					
BA	10000 μ F	103	50 V 050	EXAMPLES: Dimensions						
LS	Code Diameter x Height (mm)						Code	Can be any custom length. Examples.		
LB	100 V 100	4 x 7 mm 0407						Lead Code Lead Length (mm)	Lead Length (mm)	
SG	160 V 160	5 x 11 mm 0511						3.5 3.5 mm	3.5 mm	
	200 V 200	6 x 7 mm 0607						5.0 5.0 mm	5.0 mm	
	250 V 250	6 x 11 mm 0611						7.5 7.5 mm	7.5 mm	
	350 V 350	8 x 9 mm 0809						10.5 10.5 mm	10.5 mm	
	400 V 400	8 x 12 mm 0812								
	450 V 450	10 x 17 mm 1017								
		13 x 21 mm 1321								
		16 x 26 mm 1626								
		20 x 36 mm 2036								
		22 x 41 mm 2241								
		25 x 56 mm 2556								

ORDERING DESCRIPTION

(1) CAPACITOR SERIES

(2) CAPACITANCE CODE expressed in microfarads (μ F) with three digit codes. The first two digits are significant ("R" indicates decimal point for under 10 μ F) and the third digit represents the number of zeros to be added following the 2nd significant figure.

(3) TOLERANCE CODE [(M) is standard]

(4) RATED VOLTAGE in volts

(5) PACKAGING AND LEAD CONFIGURATION CODES

(6) SIZE (DIAMETER x HEIGHT in mm)

(7) LEAD SPACING in mm (Not applicable for AXIAL TYPE)

(8) LEAD LENGTH in mm (For lead cut only)

When placing an order for A-CAP ELECTROLYTIC CAPACITORS, product specifications are applied to develop part numbers as shown below:

EXAMPLE:

General purpose 1000 μ F / 50 Volts / 20% Radial Lead Cut / Lead spacing = 7.5mm / Lead Length = 7.5mm

NOTE: For Capacitance Value 1000 μ F, 1 & 0 are significant digits then 2 zeros follow the 2nd significant digit = Code 102

S R 1 0 2 M 0 5 0 C 1 6 2 6 F 7 . 5

EXAMPLE:

High temperature load 470 μ F / 25 Volts / 20% Radial Type (Tape & Reel) / Lead spacing = 5.0mm

NOTE: For Capacitance Value 470 μ F, 4 & 7 are significant digits then 1 zero follows the 2nd significant digit = Code 471

G R 4 7 1 M 0 2 5 T 1 0 2 1 E