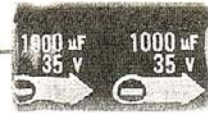




# Aluminum Electrolytic Capacitor

## GMA Series

FOR GENERAL USE 85 °C 標準品



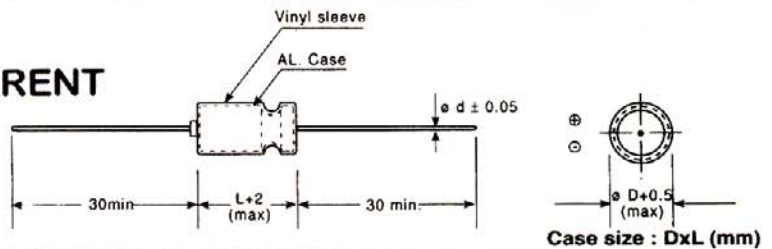
- The GMA series is designed for miniaturization.
- Suitable for consumer electronic products.
- 適用於一般民生用電子設備

### SPECIFICATION 電氣特性

ITEM	CHARACTERISTICS	
容量容許差 (120Hz 25 °C) Capacitance Tolerance	± 20%(M) ± 10%(K)	
額定電壓 Rated Working Voltage	6.3~100VDC	160~450VDC
使用溫度範圍 Operation Temperature Range	-40~+85 °C	-25~+85 °C
漏洩電流 (25 °C) Leakage Current	$I \leq 0.02CV + 3 (\mu A)$	$I \leq 0.03CV + 20 \mu A \text{ max}$
散逸因素 (120Hz 25 °C) Dissipation Factor (tan δ)	Add 0.02 per 1000 μ F for more than 1000 μ F	
	W.V.	6.3 10 16 25 35 50 63 80 100 160~250 315~450
	tan δ	0.24 0.20 0.17 0.15 0.12 0.10 0.10 0.10 0.10 0.20 0.25
低溫特性 Low Temperature Stability	Impedance ratio at 120Hz	
	rated Voltage (V)	6.3 10 16 25 35~100 160~250 315~450
	-25 °C / +25 °C	4 3 2 2 2 8 20
高溫負荷特性 Load Life	After 1000 hours application of W.V. at +85 °C the capacitor shall meet the following limits.	
	Capacitance Change	≤ ± 20% of initial value
	Dissipation Factor	≤ 150% of initial specified value
	Leakage Current	≤ initial specified value

### CASE SIZE & MAX RIPPLE CURRENT

D	6.3	8	10	13	16	18
d	0.6					0.8



μF \ WV	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
0.47					→	6.3x13	→	6.3x13	6.3x13	6.3x13	6.3x13	6.3x16	6.3x16	
1					→	6.3x13	→	6.3x13	6.3x13	6.3x13	6.3x16	8x16	8x16	8x16
2.2	註：空格部份膠管所標示的				→	6.3x13	→	6.3x13	6.3x16	6.3x16	8x16	8x21	8x21	8x21
3.3	電壓以 → 右方一格表示				→	6.3x13	→	6.3x13	8x16	8x16	8x16	10x22	10x22	10x22
4.7	All blank voltage on sleeve marking				→	6.3x13	→	6.3x13	8x16	8x16	10x22	10x27	10x27	10x27
10	is the same voltage as " → " point to.				→	6.3x13	6.3x13	6.3x16	10x22	10x22	10x27	13x27	13x27	13x27
22				→	6.3x13	6.3x16	6.3x16	8x16	10x27	13x27	13x27	13x32	16x33	16x43
33			→	6.3x13	6.3x16	6.3x16	6.3x16	8x21	13x27	13x32	13x32	16x33	16x43	18x43
47	→	6.3x13	6.3x13	6.3x16	6.3x16	6.3x16	8x16	8x21	13x32	13x32	13x35	18x43		
100	6.3x13	6.3x16	6.3x16	6.3x16	8x16	8x16	8x21	10x27	16x33	16x43				
220	6.3x16	6.3x16	8x16	8x16	8x21	10x22	10x27	13x32	18x43					
330	8x16	8x16	8x16	8x21	10x22	10x27	13x27	13x35						
470	8x16	8x16	8x21	10x22	10x27	13x27	13x32	16x43						
1000	10x22	10x22	10x27	13x27	13x32	13x35	16x33							
2200	13x27	13x27	13x32	13x35	16x33	18x43								
3300	13x27	13x32	13x35	16x33	16x43									
4700	13x32	13x35	16x33	18x43										
6800	16x33	16x33	16x43											
10000	16x43	18x43												