Aluminum Electrolytic Capacitor

GMR Series

FOR GENERAL USE　85℃標準品

- The GMR 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℃) 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℃ / -25~+85℃
漏洩電流 (25℃) Leakage Current	I ≦ 0.02CV+3 (μA) / I ≦ 0.03CV+20 μA max
	Whichever is greater after 3 minutes I:Leakage Current(μA)C:Rated Capacitance (μF) V:Working Voltage (v)
散逸因素 (120Hz 25℃) Dissipation Factor (tan δ)	Add 0.02 per 1000 μF for more than 1000 μF

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

Impedance ratio at 120Hz

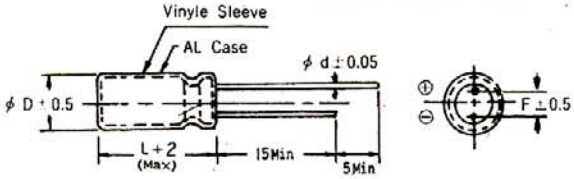
rated Voltage (V)	6.3	10	16	25	35~100	160~250	315~450
-25℃ /+25℃	4	3	2	2	2	8	20
-40℃ /+25℃	10	8	6	4	3		

高溫負荷特性 Load Life: After 1000 hours application of W.V. at +85℃ the capacitor shall meet the following limits.

Capacitance Change	≦ ± 20% of imitial value
Dissipation Factor	≦ 150% of initial specified value
Leakage Current	≦ initial specified value

CASE SIZE OF RADIAL TYPE

D	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0		7.5	
d	0.5		0.6			0.8	



CASE SIZE & MAX RIPPLE CURRENT

Case size : DxL (mm)
Max ripple current : mA (rms)
(R.C.) : 85°C 120Hz

μF \ WV	6.3		10		16		25		35		50		63		100		160		200		250		350		400		450	
ITEM	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.47											5x11	13			5x11	15	6.3x11	12	6.3x11	13	6.3x11	14	8x11	14	8x11	15	8x11	12
1											5x11	19			5x11	22	6.3x11	18	6.3x11	19	6.3x11	21	8x11	21	8x11	21	8x11	18
2.2	註：空格部份膠管所標示的電壓以 ← 右方一格表示										5x11	29			5x11	32	6.3x11	27	6.3x11	29	6.3x11	31	8x11	31	8x11	32	10x13	29
3.3	All blank voltage on sleeve marking										5x11	35			5x11	39	6.3x11	33	6.3x11	35	8x11	44	10x13	41	10x13	42	10x18	38
4.7	is the same voltage as " ← "point to										5x11	42			5x11	47	6.3x11	39	8x11	48	8x11	50	10x13	49	10x16	55	10x16	48
10							5x11	50			5x11	60	5x11	60	6.3x11	80	8x11	65	10x13	75	10x16	90	10x21	85	13x21	90	13x21	75
22							5x11	75			5x11	90	6.3x11	100	8x11	130	10x16	120	10x21	140	13x21	150	13x21	130	13x26	150	16x25	130
33							5x11	90	5x11	100	6.3x11	130	6.3x11	130	10x13	180	10x21	160	13x21	170	13x21	190	13x26	180	16x25	190	16x32	170
47					5x11	100	5x11	110	6.3x11	140	6.3x11	150	8x11	170	10x16	230	13x21	190	13x21	210	13x26	250	16x25	220	16x32	250	18x35	210
100	5x11	130	5x11	140	6.3x11	170	6.3x11	180	8x11	230	8x11	250	10x13	270	13x21	380	13x26	310	16x25	340	16x32	410	18x35	360				
220	6.3x11	210	6.3x11	230	8x11	290	8x11	310	10x13	370	10x16	440	10x21	500	16x25	640	16x35	540	18x42	620								
330	6.3x11	260	8x11	330	8x11	350	10x13	410	10x16	500	10x21	610	13x21	620	16x25	780	18x42	710										
470	8x11	350	8x11	390	10x13	460	10x16	530	10x21	670	13x21	740	13x26	820	16x32	1040												
1000	10x13	560	10x16	670	10x21	820	13x21	880	13x21	990	16x25	1220	16x32	1360														
2200	10x21	980	13x21	1080	13x21	1160	13x26	1350	16x32	1700	18x35	1890																
3300	13x21	1180	13x21	1270	13x26	1490	16x32	1790	18x35	2000	18x42	2320																
4700	13x26	1460	16x25	1610	16x32	1900	18x35	2040	18x42	2380																		
6800	16x25	1700	16x32	2010	18x35	2170	18x42	2440																				
10000	16x32	2100	18x35	2260	18x42	2560																						