

## GM Series General (普通品)

### FEATURES

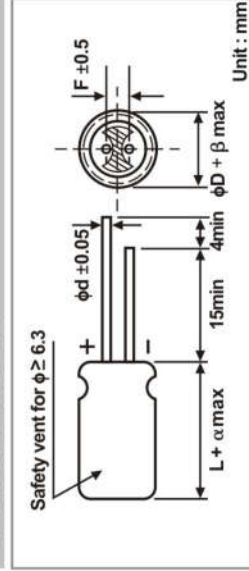
1. High CV value, guarantee 2000 hrs load life at 85°C.
2. Suitable for use in electronic circuits in colour TV receiver, videocoder etc.



### SPECIFICATIONS

Item	Performance Characteristics	
Operating Temperature Range	-40 to +85°C	
Rated Working Voltage Range	160 to 450V	
Nominal Capacitance Range	0.1 to 22000 $\mu$ F	
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20°C)	
Leakage Current	$I \leq 0.01CV$ or $3(\mu A)$ after 2 minutes whichever is greater measured with rated working voltage applied at +20°C	
$\tan \delta$ (120Hz, +20°C)	Working Voltage (V)	$I \leq 0.03CV + 40(\mu A)$ after 2 minutes application of rated working voltage at +20°C
	$\tan \delta$ (max.)	
	Working Voltage (V)	
	$\tan \delta$ (max.)	
	For capacitance value > 1000 $\mu$ F, add 0.02 per another 1000 $\mu$ F	
Low Temperature Characteristics	Impedance ratio max. at 120Hz	
	Working Voltage (V)	
	Z-25°C / Z+20°C	
	Z-40°C / Z+20°C	
	Working Voltage (V)	
	Z-25°C / Z+20°C	
	For capacitance value > 1000 $\mu$ F, Add 0.5 per another 1000 $\mu$ F for Z-25°C / Z+20°C	
	Add 1.0 per another 1000 $\mu$ F for Z-40°C / Z+20°C	
High Temperature Loading	Test conditions	Post test requirements at +20°C
	Duration : 2000 hours	Leakage current : $\leq$ Initial specified value
	Ambient temp. : +85°C	Cap. change : within $\pm 20\%$ of initial measured value
	Applied voltage : Rated DC working voltage with rated ripple current	$\tan \delta$ : $\leq 200\%$ of initial specified value
Shelf Life	Test conditions	Post test requirements at +20°C
	Duration : 1000 hours	Same limits for high temperature loading.
	Ambient temp. : +85°C	
	Applied voltage : (None)	
Others	JIS C - 5101 ( IES 60384 )	

### CASE SIZE TABLE



$\phi D$	5	6.3	8	10	12.5	16	18	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0
$\phi d$	0.5		0.6		0.6		0.8		
$\alpha$	(L < 20) 1.5		(L $\geq 20$ ) 2.0		(L $\geq 20$ ) 2.0				
$\beta$	(D < 20) 0.5		(D $\geq 20$ ) 1.0		(D $\geq 20$ ) 1.0				

**GM Series**

**General (普通品)**

**STANDARD RATINGS**

Voltage (Code)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
Cap.( $\mu$ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
10	106							5 x 11	54
22	226							5 x 11	73
33	336							5 x 11	98
47	476					5 x 11	115	5 x 11	126
100	107	5 x 11	135	5 x 11	140	5 x 11	175	6.3 x 11	211
220	227	5 x 11	220	5 x 11	230	6.3 x 11	290	8 x 12	370
330	337	6.3 x 11	297	6.3 x 11	322	6.3 x 11	350	8 x 12	453
470	477	6.3 x 11	360	6.3 x 11	384	8 x 12	499	10 x 12.5	628
680	687	8 x 12	503	8 x 12	546	10 x 12.5	690	10 x 16	826
1000	108	8 x 12	610	10 x 12.5	791	10 x 16	928	10 x 20	1094
1500	158	10 x 12.5	780	10 x 16	875	10 x 20	1025	12.5 x 20	1210
2200	228	10 x 16	890	10 x 20	1226	12.5 x 20	1555	12.5 x 25	1800
3300	338	10 x 20	1350	12.5 x 20	1685	12.5 x 25	1990	16 x 25	2304
4700	478	12.5 x 20	1822	12.5 x 25	2103	16 x 25	2487	16 x 30	2854
6800	688	12.5 x 25	1930	16 x 25	2606	16 x 30	3010	16 x 40	3528
10000	109	16 x 25	2760	16 x 30	2960	16 x 35	3490	16 x 35	3546
15000	159	16 x 35	2860	16 x 40	3100				
22000	229	18 x 40	3400						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size  $\phi$ D x L (mm)

Voltage (Code)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
Cap.( $\mu$ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.1	104			5 x 11	1.3				
0.15	154			5 x 11	1.5				
0.22	224			5 x 11	2.9				
0.33	334			5 x 11	4.3				
0.47	474			5 x 11	6.2				
1	105			5 x 11	13				
2.2	225			5 x 11	28				
3.3	335			5 x 11	35				
4.7	475	5 x 11	35	5 x 11	48				
10	106	5 x 11	53	5 x 11	71	5 x 11	76	5 x 11	76
22	226	5 x 11	90	5 x 11	106	5 x 11	113	6.3 x 11	135
33	336	5 x 11	110	5 x 11	130	6.3 x 11	159	8 x 12	187
47	476	5 x 11	138	6.3 x 11	177	6.3 x 11	190	10 x 12.5	259
68	686	6.3 x 11	160	6.3 x 11	210	8 x 12	220	10 x 16	290
100	107	6.3 x 11	231	8 x 12	306	8 x 12	321	10 x 20	453
220	227	8 x 12	405	10 x 12.5	506	10 x 16	615	12.5 x 20	742
330	337	10 x 12.5	576	10 x 16	706	10 x 20	823	12.5 x 25	987
470	477	10 x 16	753	10 x 20	811	12.5 x 20	1153	16 x 25	1394
680	687	10 x 20	988	12.5 x 20	988	12.5 x 25	1512	16 x 30	1400
1000	108	12.5 x 20	1407	12.5 x 25	1715	16 x 25	2037	18 x 35	1995
2200	228	16 x 25	2134	16 x 30	2320	18 x 35	2300		
3300	338	16 x 30	2338	18 x 35	3218	18 x 40	2500		
4700	478	18 x 35	3400	18 x 40	3336				
5600	568	18 x 40	3411						
6800	688	18 x 40	3500						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size  $\phi$ D x L (mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

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