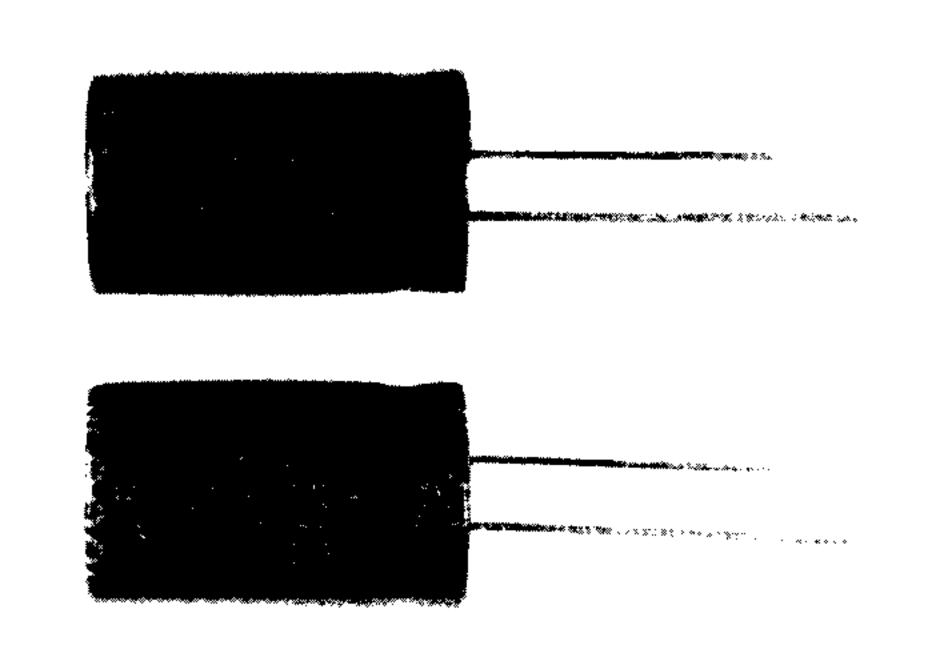


GENERAL PURPOSE RADIAL CAPACITORS

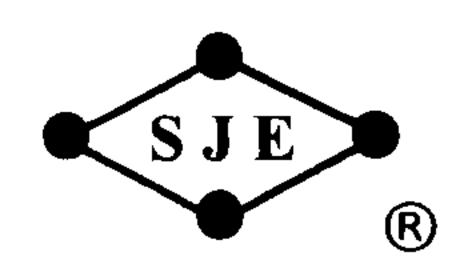
GPR series General Purpose 85°c 一般標準品

- ●本系列為高 CV 値,適用於一般民生電子產品,有防爆孔設計,在 85°c 常溫下,耐用 2000 小時。
- Wide CV value range for general purpose.
- •Safely vent construction products, GPR series are guaranteed 2,000 hours at 85°c.



specifications

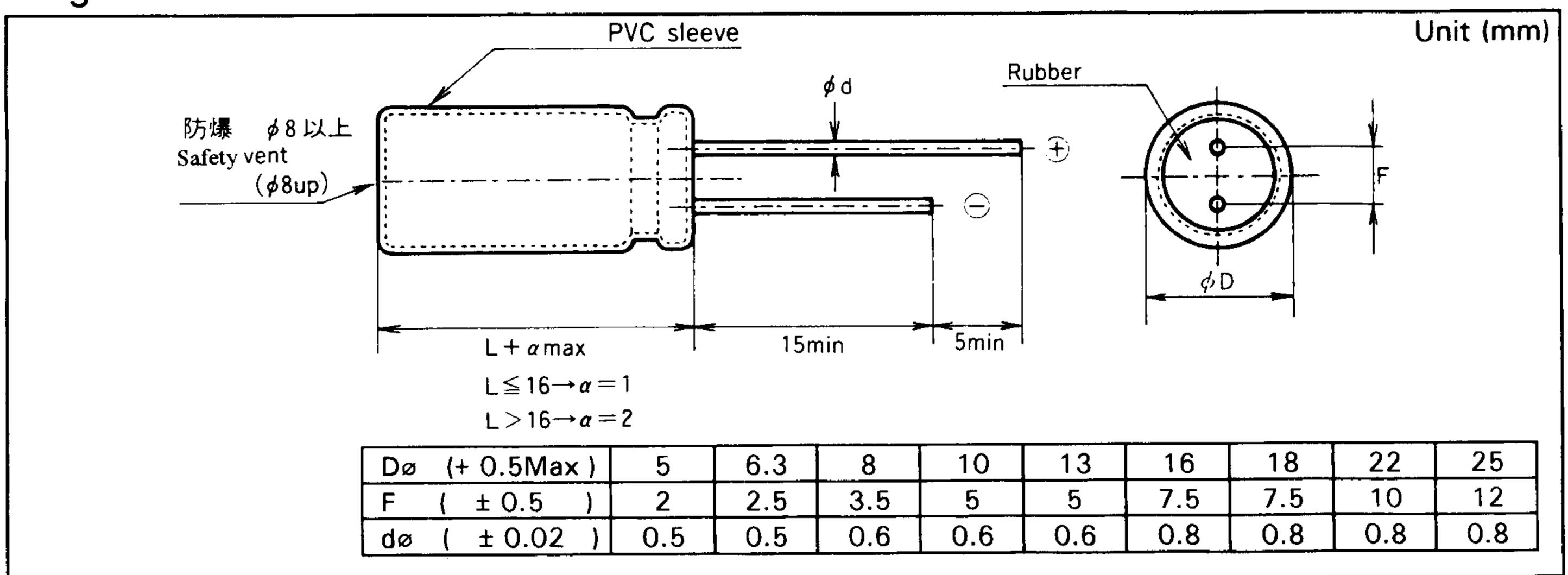
No.	Hamilian					Pe	rfor	mai	nce							
	使用溫度範圍 Operating Temperature Range	-40 to +85°c							-25 to +85°c							
2	定格電壓範圍 Rated Working Voltage Range	6.3 - 100v.DC							160 - 450v.DC							
3	靜電容量範圍 Nominal Capacitance Range	0.1 - 22000µF						0.47 - 820µF								
4	靜電容量容許差 Capacitance Tolerance	±20% (at + 20°c ,120Hz)														
5	漏洩電流 Leakage Current	I=0.01CV or 3(μA) max						I≤0.03CV + 30(μA) max								
		I :Leakage Current (μΑ) Whichever is greater after 3 minutes. C:Rated Capacitance (μF) V:Working Voltage(v)										<u> </u>				
6	損失角 Dissipation Factor(tanδ) (120Hz\+20°c)	Working Voltage 6.3 10 16 25 35 50 63 100 160 200 250 350 tanδ max. 0.22 0.2 0.17 0.15 0.12 0.1 0.09 0.08 0.2 0.2 0.18 0.20 0 Add 0.02 per 1000 μF for more than 1000μF.														
7	容許 電 流 Ripple Current	Refer to standard products table (120Hz, +85°c). Correction factor for frequency. Frequency (Hz) 50/60 120 1K 10k Correction factor(Multiplier) 0.7 1 1.3 1.5									0K 1.7					
8	溫度特性(at 120 Hz)	Working Voltage -25°c/+20°c	6.3 4	10	16	25	35	50	63	100	160	200	250 3	350 5	400 12	450 15
	Characteristics at low temperature (stability at 120 Hz)	-40°c/+20°c	8	6	4	4	3	3	3	3						
	(Stability at 120 112)	For capacitance value > 1000 µF, Add 0.5 per another 1000 µF for -25°c/+25°c. Add 1.0 per another 1000µF for -40°c/+20°c.														
		After 2000hrs. application of DC rated working voltage at +85°c, The capacitor shall meet the following limits: Post test requirements at +20°c.													°C,	
9	高溫負荷特性	Leakage current ≤1						≤the Initial specified value								
	High Temperature Loading	Capacitance change ≤±20% of initial measured value Dissipation Factor(tanδ) ≤150% of initial specified value														
10	高溫無負荷特性 Shelf Life	After storage for 500hrs. at +85°c with no voltage applied. Post test requirements at +20°c same limits as high temperature loading.														



GENERAL PURPOSE RADIAL CAPACITORS

GPR series General Purpose 85°c 一般標準品

Diagram of Dimensions



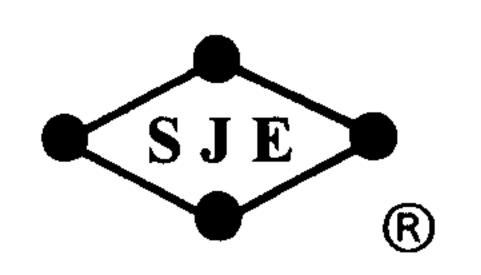
Case Size Table

øD×L(mm)

W.V.(SV)	6.3	10	16	25	35	50	63	100
μF	(8)	(13)	(20)	(32)	(44)	(63)	(79)	(125)
0.1						5×11		5×11
0.22					>	5×11		5×11
0.33					→	5×11		5×11
0.47						5×11		5×11
1.0						5×11		5×11
2.2	,					5×11		5×11
3.3						5×11		5×11
4.7					>	5×11		5×11
10				5×11	5×11	5×11	5×11	6.3×11
22				5×11	5×11	5×11	6.3×11	8×11
33		>	5×11	5×11	5×11	6.3×11	6.3×11	10×13
47		>	5×11	5×11	6.3×11	6.3×11	8×11	10×16
100	>	5×11	6.3×11	6.3×11	8×11	8×11	10×13	13×21
220	>	6.3×11	6.3×11	8×11	10×13	10×16	10×21	16×26
330	>	6.3×11	8×11	10×13	10×16	10×21	13×21	16×26
470	6.3×11	8×11	8×11	10×16	10×16	13×21	13×26	16×32
1,000	8×11	10×13	10×16	10×21	13×21	16×26	16×32	18×42
2,200	10×21	10×21	13×21	13×26	16×26	16×36	18×36	25×50
3,300	13×21	13×21	13×26	16×26	16×36	18×36	22×42	
4,700	13×26	13×26	16×26	16×36	18×36	22×41	25×50	
6,800	16×26	16×26	16×36	18×36	22×41	25×50	30×46	
8,200	16×32	18×36	18×42	22×46	22×50	30×46		
10,000	16×32	18×32	18×36	22×41	25×50	30×46		
15,000	18×36	18×36	22×50	25×50				<u></u>
22,000	22×40	22×50	25×50	30×46			<u>.</u>	

[※]空格部份膠管所標示的電壓以"→ "右方一格表示

^{*} All blank dimensions is the same dimensions as " \longrightarrow " point to.



GENERAL PURPOSE RADIAL CAPACITORS

GPR series General Purpose 85°c 一般標準品

Case Size Table

øDX L(mm)

W.V. (SV)	160	200	250	350	400	450
μF	(200)	(250)	(300)	(400)	(450)	(500)
0.47	6.3×11	6.3×11	6.3×11	8×11	8×11	8×11
1.0	6.3×11	6.3×11	6.3×11	8×11	8×11	8×11
2.2	6.3×11	6.3×11	6.3×11	8×11	8×11	10×13
3.3	6.3×11	6.3×11	8×11	10×13	10×13	10×16
4.7	6.3×11	8×11	8×11	10×13	10×16	10×18
10	8×11	10×13	10×16	10×21	13×21	13×21
22	10×16	10×21	13×21	13×21	13×26	16×26
33	10×21	13×21	13×21	13×26	16×26	16×32
47	13×21	13×21	13×26	16×26	16×32	18×36
100	13×26	16×26	16×32	18×36	18x36	
150	16×36	18×42	22×36	22×41	22×50	
220	16×36	18×42	22×36	22×50		ſ
330	18×42	22×41	22×46			
470	22×41	22×46	25×46			
560	22×46	22×50	25×50			
680	22×50	25×50				
820	25×50		, ·			

Permissible Ripple Current

Max ripple current: mA (rms) (at 85°c.120Hz)

W.V. (SV)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
μF	(8)	(13)	(20)	(32)	(44)	(63)	(79)	(125)	(200)	(250)	(300)	(400)	(450)	(500)
0.1-0.47					·	8		10	10	10	10	11	12	12
1.0						13		16	16	16	18	18	18	19
2.2						21		27	28	29	31	28	28	29
3.3						30		40	35	36	40	35	35	35
4.7				30	35	40	40	45	41	45	49	40	45	50
10			45	45	50	60	65	75	70	72	81	70	70	75
22		60	60	70	80	90	110	130	120	126	144	110	110	110
33	65	75	85	95	105	120	140	170	170	160	171	140	140	150
47	80	90	100	120	135	150	180	230	220	193	210	170	190	220
100	130	140	170	180	220	250	280	380	350	330	320	420	520	
150	170	220	240	310	350	400	450	550	660	720	730	740	750	
220	220	240	280	320	380	430	490	680	690	700	810	820		
330	260	320	360	420	480	540	680	800	800	970	1110			
470	380	400	460	540	620	750	880	1000	1080	1220	1430			
560	440	500	580	670	770	880	1050	1170	1240	1400	1630			
680	500	570	660	760	870	1000	1160	1330	1430	1650				
820	560	640	740	850	970	1130	1300	1500	1690					
1,000	580	660	760	900	1040	1260	1400	1970						
2,200	1000	1050	1250	1460	1700	1900	2460	3390)					
3,300	1200	1340	1620	1800	2060	2180	3270	<u> </u>						
4,700	1650	1720	1960	2150	2280	3380	3800							
6,800	1750	2060	2250	2400	3490	4110	4500]
8,200	2150	2520	2870	3420	3780	4150						·		
10,000	2260	2640	2980	3710	4170	4300				<u></u>				
15,000	2760	3120	3890	4270										
22,000	3000	4010	4410	4500										