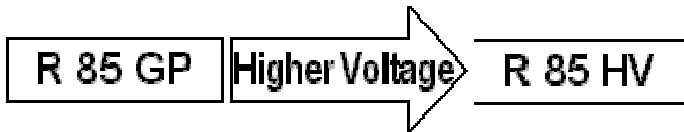


R 85 GP 85°C General Purpose



Features

- Standard low voltage used for general purpose
- Low impedance characteristics
- Safety vent construction for case diameter $\geq 8\text{mm}$

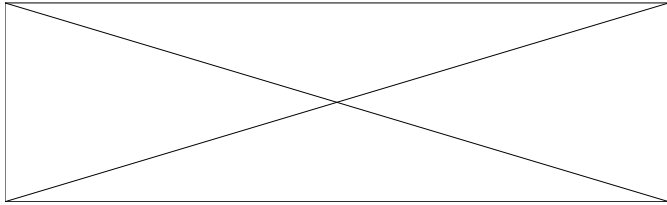
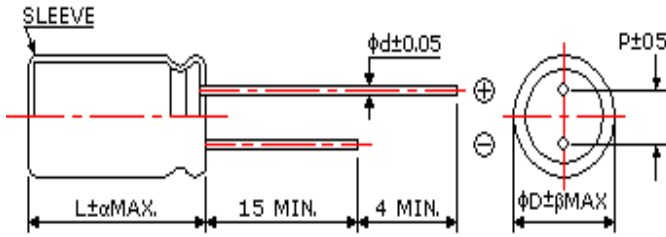


Specifications

Item	Electrical Characteristics										
	R 85 GP										
Life	2000 Hours at 85°C										
Operating Temp. Range	-40°C to +85°C										
Capacitance Tolerance	$\pm 10\%$ (K)			$\pm 20\%$ (M)			(at 20°C, 120Hz)				
Leakage Current (#A Max. at 20°C)	I = 0.01 CV or 3#A whichever is greater (for $\phi D \leq 18\text{mm}$) (After 2 minutes application of rated DC working voltage at 20°C) I = $3\sqrt{CV}$ (for $\phi D > 18\text{mm}$) (After 5 minutes application of rated W.V. at 20°C) I=Leakage Current (#A) C=Rated Capacitance (#F) V=Rated Voltage (V)										
Dissipation Factor ($\tan \delta$, at 20°C, 120Hz)	Rated Voltage	6.3	10	16	25	35	50	63	100		
	Tan δ (Max.)	0.24	0.20	0.17	0.15	0.12	0.10	0.09	0.08		
For capacitors with capacitance exceed 1000#F, the specification of tan δ is increased by 0.02 for each additional 1000#F											
Temperature Characteristics (at 120Hz)	Rated Voltage	6.3	10	16	25	35	50	63	100		
	Impedance Ratio	Z(-25°C) / Z(+20°C)	6	4	3	2	2	2	2	2	
Life Test	Test Time	2000 Hrs			1000 Hrs						
	1. Load Life (after applying rated voltage at 85°C)	Test Item	Load Life			Shelf Life					
	2. Shelf Life (no voltage applied at 85°C 1000 hours)	Leakage Current	within the specified value			not exceed 200% of specified value					
	Dissipation Factor	less than 200% of specified value									
Capacitance Change	within $\pm 20\%$ of the initial value										
Ripple Current Multiplier of Frequency Coefficient	Frequency (Hz)	60(50)	120	300	1K	10K	100K				
	Capacitance	<100	0.75	1.00	1.35	1.57	2.00	2.50			

	(μ F)	100 to 1000	0.80	1.00	1.23	1.34	1.50	1.50
		>1000	0.85	1.00	1.10	1.13	1.15	1.15
Ripple Current Multiplier of Temperature Coefficient	Temperature ($^{\circ}$ C)		45	70	85			
	Multiplier		1.78	1.30	1.00			
Reference Standard	Characteristics W of JIS C - 5141 and JIS C - 5102							

Diagram of Dimensions



Lead Spacing and Diameter

ϕD	5	6	8	10	13	16	18	22
P	2.0	2.5	3.5	5.0	7.5	10.5		
ϕd	0.5			0.6		0.8		
α	1.5					2.0		
β	0.5					1.0		

Unit: mm

Dimension & Permissible Ripple Current

Dimension: $\phi D \times L$ (mm)

Ripple current (mA/rms) at 85 $^{\circ}$ C, 120Hz

Cap. Code	W.V.	6.3		10		16		25	
	V. Code	(006)		(010)		(016)		(025)	
	μ F Dim.	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
106	10					5x11	44	5x11	54
226	22					5x11	79	5x11	96
336	33			5x11	84	5x11	92	5x11	110
476	47			5x11	100	5x11	110	5x11	130
107	100			5x11	170	6x11	180	6x11	185
227	220	5x11	240	6x11	270	6x11	305	8x12	330
337	330	6x11	300	6x11	330	8x12	375	10x13	470
477	470	6x11	380	8x12	430	8x12	470	10x13	540
108	1000	8x12	580	10x13	630	10x16	790	10x21	950
228	2200	10x21	1050	10x21	1100	13x21	1350	13x26	1550
338	3300	13x21	1250	13x21	1400	13x26	1700	16x25	1950
478	4700	13x26	1700	13x26	1800	16x25	2100	16x32	2360
688	6800	13x26	1900	16x25	2150	16x36	2500	18x36	2550

109	10000	16x32	2320	18x36	2650	18x36	2700	22x40	2850
129	12000	16x36	2450	18x36	2860	22x40	2980	22x40	3100
159	15000	18x36	2880	18x36	2900	22x40	3150	22x40	3250
189	18000	18x36	3060	18x40	3120	22x40	3450		
229	22000	18x40	3650	22x40	3700	22x40	3800		

Cap. Code	W.V.	35		50		63		100	
	V. Code	(035)		(050)		(063)		(100)	
	Dim. #F	ϕDxL	mA	ϕDxL	mA	ϕDxL	mA	ϕDxL	mA
104	0.1			5x11	1.3			5x11	2.6
224	0.22			5x11	2.9			5x11	5.8
334	0.33			5x11	4.4			5x11	8.8
474	0.47			5x11	7			5x11	12
105	1			5x11	13			5x11	22
225	2.2			5x11	29			5x11	33
335	3.3			5x11	35			5x11	42
475	4.7			5x11	42	5x11	48	6x11	53
106	10	5x11	60	5x11	69	5x11	74	6x11	80
226	22	5x11	100	5x11	105	6x11	115	8x12	135
336	33	5x11	115	6x11	125	6x11	140	10x13	180
476	47	5x11	140	6x11	150	8x12	190	10x16	240
107	100	8x12	240	8x12	250	10x13	320	10x21	400
227	220	10x13	420	10x16	460	10x16	490	13x26	710
337	330	10x13	490	10x16	585	10x21	680	16x25	900
477	470	10x21	740	13x21	860	13x26	950	16x32	1250
108	1000	13x21	1100	13x26	1350	16x25	1550	18x40	1750
228	2200	16x25	1800	16x36	2090	18x40	2200	22x40	2300
338	3300	16x36	2220	18x40	2400	22x40	2560		
478	4700	18x36	2400	22x40	2800				
688	6800	22x40	2800						