

- Miniaturized, Low E.S.R and Low impedance.
- Suitable for use in high ripple current capability..
- Load life 8,000~10,000 hours at 105°C.

Item	Performance Characteristics								
Category Temperature Range	-40~ +105°C								
Working Voltage Range	6.3 ~ 100Vdc								
Capacitance Range	6.8 ~18,000µF								
Capacitance Tolerance	±20% (at 20°C and 120Hz)								
Dissipation Factor (tan δ) (at 20°C, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100
	tan δ (Max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
	The above values should be increased by 0.02 for every additional 1000µF								
Leakage Current	I≤0.01CV or 3µA whichever is greater I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Apply rated voltage the rated voltage for 2 minutes.								
Low Temperature Characteristics Impedance Ratio(MAX)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100
	Z(-25°C)/Z(+25°C)	3	2	2	2	2	2	2	2
	Z(-40°C)/Z(+25°C)	4	3	3	3	3	3	3	3
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 8,000~10,000 hours at 105°C.								
	Capacitance change		≧ ±25% of the initial value				Size		Life time
	Dissipation factor(tan δ)		≧ 200% of the specified value						(6.3~100WV)
	Leakage current		≧ specified value						
							≧ 6.3Φ	8,000	
						8 ~ 18 Φ	10,000		
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied.								
	Capacitance change		≧ ±25% of the initial value						
	Dissipation factor(tan δ)		≧ 200% of the specified value						
	Leakage current		≧ 200% of the specified value						
Others	Conforms to JIS-C-5101-4 (1998) and IEC 60384-4								

Technical drawing of a Safety Vent assembly. The side view shows a cylindrical body with a diameter of ϕD , a sleeve, and two pins with a diameter of $\phi d \pm 0.05$. The total length is $L+a \text{ Max}$, with a 15mm section for the pins and a 5mm section for the sleeve. The end view shows a circular cross-section with a diameter of $\phi 6.3$ and a pin diameter of $P \pm 0.5$.

ΦD	5	6.3	8	10	12.5/13	16	18
ΦD	ΦD±0.5 Max						
Φd	0.5	0.5	0.5/0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
a	$< 20 L \pm 1.5 \text{Max}$ $\geq 20 L \pm 2.0 \text{Max}$						

E	R	J	0	1	6	M	2	2	2	G	2	0	L	O	5	0	A	A		
																			Special Request	
																			Lead size	
																			Lead type	
																			Height code (L: 20mm)	
																			Diameter code (G: Φ10)	
																			Capacitance code (2200 μF)	
																			Capacitance tolerance code (M: ±20%)	
																			Voltage code (16V)	
																			Series code (RJ)	
																			Category code	

RJ Series

◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 100KHz

WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Impedance (Ω _{max} /100kHz) 25°C	Max. Rated ripple current @105°C/100kHz (mA rms)	WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Impedance (Ω _{max} /100kHz) 25°C	Max. Rated ripple current @105°C/100kHz (mA rms)
6.3	220	5×11	0.300	550	10	100	5×11	0.400	430
	330	6.3×12	0.250	800		220	6.3×11	0.300	650
	470	8×12	0.200	1100		330	6.3×11	0.280	700
	680	8×12	0.180	1310		470	6.3×12	0.260	780
	820	8×12	0.150	1440			8×12	0.190	1090
	1000	8×12	0.120	1590		680	8×16	0.180	1490
	1200	10×13	0.100	2050		820	10×13	0.120	1700
	1500	10×20	0.060	2760		1000	8×16	0.160	1800
	1800	10×16	0.070	2750			10×13	0.110	1870
	2200	10×16	0.065	3000		1200	10×20	0.060	2300
	3300	10×20	0.057	4000		1500	10×25	0.055	2800
						2200	10×25	0.050	2900
						3300	12.5×20	0.045	3000
						4700	13×30	0.040	3700
16	100	5×11	0.420	420	25	22	5×11	0.700	200
	120	5×11	0.400	450		47	5×11	0.620	260
	220	6.3×12	0.250	720		100	5×11	0.500	400
	330	6.3×12	0.200	750			6.3×11	0.300	600
	470	8×12	0.180	1200		220	8×12	0.200	1000
	560	8×16	0.150	1600		330	8×12	0.150	1200
	680	8×16	0.130	1700		470	8×16	0.095	1600
		10×13	0.120	1750			10×13	0.092	1700
	820	10×16	0.090	1900		560	8×20	0.085	1950
	1000	8×16	0.100	1900		680	10×16	0.080	2000
		10×16	0.080	2000		820	10×20	0.055	2200
	1200	10×20	0.068	2200		1000	10×16	0.060	2300
	1500	10×20	0.060	2300			10×20	0.053	2500
	1800	10×20	0.050	2400		1500	10×20	0.050	2550
	2200	10×20	0.048	2500		2200	13×25	0.045	3600
		12.5×20	0.045	2600		2700	13×35	0.040	4100
	2700	13×30	0.042	3300		3300	16×25	0.038	3800
	3300	13×25	0.040	3500		4700	18×35	0.035	4000
	4700	13×30	0.038	3600					

RJ Series

◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 100kHz

WV(V)	Nominal capacitance (uF)	Case size ΦD×L (mm)	Impedance (Ω _{max} /100kHz) 25°C	Max.Rated Ripple current @105°C/100kHz (mA rms)	WV(V)	Nominal capacitance (uF)	Case size ΦD×L (mm)	Impedance (Ω _{max} /100kHz) 25°C	Max.Rated Ripple current @105°C/100kHz (mA rms)
35	22	5×9	0.800	300	50	4.7	5×11	1.000	150
	33	5×11	0.700	400		10	5×11	0.800	230
	47	5×11	0.650	450		22	5×11	0.780	300
	56	6.3×11	0.400	580		33	6.3×11	0.600	450
	100	6.3×11	0.350	700		47	6.3×11	0.500	480
		8×12	0.280	1000		56	6.3×12	0.450	500
	120	8×12	0.250	1200		68	6.3×12	0.400	550
	220	10×13	0.200	1500		100	6.3×12	0.230	600
	330	8×16	0.090	1800			8×12	0.180	950
		10×16	0.088	1900		150	10×13	0.100	1300
	470	10×15	0.085	2000		180	8×20	0.080	1580
	560	10×16	0.080	2200		220	10×15	0.080	1600
	680	10×20	0.068	2500		330	10×16	0.070	1800
	820	10×25	0.062	3000		470	10×17	0.065	2000
	1000	10×25	0.060	3000		560	10×20	0.055	2200
		12.5×20	0.050	3000		680	12.5×25	0.050	2800
	1200	12.5×25	0.040	3200		820	13×25	0.045	3200
	1500	12.5×30	0.030	3650		1000	16×25	0.040	3500
	1800	16×25	0.025	3800		1200	16×32	0.036	3800
	2200	16×26	0.025	3900		1500	16×35	0.030	4000
	2700	16×35	0.024	4100		2200	18×35	0.028	4500
63	22	6.3×9	1.500	220	100	3.3	5×9	3.500	100
	33	6.3×11	1.200	400		4.7	6.3×9	2.500	150
	47	6.3×12	1.000	450		6.8	6.3×11	2.000	250
		8×12	0.600	600		10	5×11	0.750	220
	56	6.3×12	0.900	500			6.3×11	0.700	330
	68	8×12	0.560	700		33	8×12	0.400	620
	82	8×12	0.520	750		47	10×13	0.250	780
	100	8×12	0.500	800		68	10×16	0.200	1000
	150	10×13	0.380	1000		100	10×16	0.180	1100
	220	10×16	0.130	1200			10×20	0.140	1430
		10×25	0.100	1600		150	13×20	0.120	1750
	330	10×20	0.100	1800		220	13×25	0.100	2210
	470	10×25	0.080	2300		330	12.5×35	0.090	2600
	560	13×25	0.065	2600		470	18×20	0.080	2400
	680	13×20	0.068	2800		560	16×40	0.060	2900
	820	12.5×30	0.065	2900		680	18×30	0.056	3300
	1000	16×30	0.060	3500					
	1200	18×30	0.058	3800					
	1500	18×32	0.056	4000					
	3300	22×40	0.048	4500					

◆ RIPPLE CURRENT MULTIPLIERS
Frequency Multipliers

Vdc	Cap(uF)	Frequency (Hz)			
		120	1K	10K	100K
6.3 ~ 100	6.8 ~ 68	0.30	0.55	0.80	1.00
	82 ~ 220	0.40	0.60	0.85	1.00
	330 ~ 820	0.50	0.65	0.90	1.00
	1000 ~ 18000	0.60	0.70	0.95	1.00