

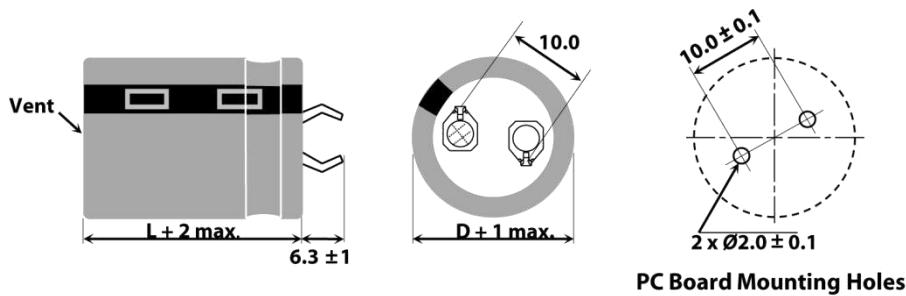
Features

- 2000h at +85℃, 焊针型, Snap-in Type
- 宽电压, 大容量。Wide Voltage, Large capacitance

Specifications

Item	Characteristics									
使用温度范围 Operating Temperature Range(℃)	-40 ~ +85					-25 ~ +85				
额定电压 Rated Voltage (V)	10 ~ 400					450 ~ 500				
标称容量 Nominal capacitance (μF)	100 ~ 100,000									
容量偏差 Capacitance Tolerance(20℃,120Hz)	±20%									
漏电流 Leakage current (μA)	I≤0.01CV or 1.5mA, which is smaller. (at 20℃ ,after 5 minutes)									
损耗角正切值 Dissipation Factor(20℃,120Hz)	WV(V) Cap(μF)	10~16	25	35~50	63	80~100	WV(V) φ(mm)	160~200	250~500	
	≤2700	-	-	0.2	0.15	0.15	22 ~ 30	0.1	0.15	
	3300~4700	-	0.35	0.25	0.2	0.15				
	5600~6800	0.4	0.35	0.3	0.2	0.2	35	0.12	0.15	
	≥8200	0.4	0.35	0.35	0.25	-				
耐久性 Load Life(+85℃)	时间 time			2000 小时 2000 hours						
	容量变化率 Capacitance change			±20%初始测量值以内 Within±20% of the initial value						
	漏电流 Leakage current			≤初始规定值 Not more than the Initial specified value						
	损耗角正切值 Dissipation factor			≤200%初始规定值 Not more than 200% of the Initial specified value						
高温贮存 Shelf Life(+85℃)	时间 time			500 小时 500 hours						
	容量变化率 Capacitance change			±20%初始测量值以内 Within±20% of the initial value						
	漏电流 Leakage current			≤初始规定值 Not more than the Initial specified value						
	损耗角正切值 Dissipation factor			≤200%初始规定值 Not more than 200% of the Initial specified value						
	试验后：施加标称电压 30 分钟，于 24 至 48 小时之间测试。 After test: UR to be applied for 30 minutes, 24 to 48 hours before measurement.									

Dimensions mm



Frequency Coefficient

Frequency(Hz)	50,60	120	300	1k	≥10k
Voltage					
10 ~ 50	0.88	1.00	1.04	1.15	1.15
63 ~ 100	0.80	1.00	1.17	1.32	1.45
160 ~ 500	0.80	1.00	1.16	1.30	1.42

Temperature Coefficient

Frequency(Hz)	+40	+60	+70	+85
Voltage				
< 160	2.10	1.80	1.50	1.00
≥ 160	1.70	1.50	1.30	1.00

Standard Ratings

WV (SV)	Cap.	Max ESR	Typ ESR	Ripple Current	Size φDxL
		20℃ 120Hz		85℃ 120Hz	
V	μF	mΩ	mΩ	Arms	mm
10(13)	15000	36	29	3.1	22x30
	22000	25	20	4.1	22x40
	33000	17	13	4.6	25x40
	47000	12	9.1	6	25x50
	56000	9.5	7.6	6.8	30x50
	68000	7.9	6.3	7.7	35x40
	82000	6.5	5.2	8.7	35x50
16(20)	8200	65	52	2.2	22x30
	10000	54	43	2.6	22x40
	15000	36	29	3.3	25x50
	22000	25	20	4.2	30x40
	33000	17	13	5.6	30x50
	47000	12	9.1	7	30x50
	56000	9.5	7.6	8	35x50
	68000	8	5.4	9.2	35x50
	82000	5.5	3.6	10.5	35x70
	100000	3	2.1	11.7	35x80
25(32)	8200	57	46	2.6	22x40
	10000	47	38	2.9	22x40
	15000	31	25	3.7	25x40
	22000	22	17	5	30x40
	33000	15	12	6.5	35x40
	47000	10	8	8.8	35x50
	56000	5	4	9.5	35x60
35(44)	2200	100	95	0.9	22x30
	3300	100	81	1.8	22x40
	4700	71	57	2.2	25x30
	5600	72	57	2.3	25x30
	6800	59	47	2.6	25x40
	8200	57	46	2.8	25x40
	10000	47	38	3.2	30x40
	12000	39	31	3.5	30x40
	15000	31	25	4.1	30x50
	18000	26	21	4.6	30x50
	22000	22	17	5.3	35x50
	33000	19	13	6.1	35x60
	47000	15	9	7.8	35x80
50(63)	3300	100	81	2	25x40
	4700	71	57	2.4	25x40
	5600	72	57	2.5	25x50
	6800	59	47	2.8	30x50
	8200	57	46	3.2	30x50
	10000	47	38	3.4	30x50

WV (SV)	Cap.	Max ESR	Typ ESR	Ripple Current	Size φDxL
		20℃ 120Hz		85℃ 120Hz	
V	μF	mΩ	mΩ	Arms	mm
50(63)	12000	39	31	3.8	30x50
	15000	31	25	4.5	30x50
	18000	25	19	5.6	35x50
	22000	19	13	6.8	35x50
63(79)	2200	91	73	2	22x30
	3300	81	65	2.3	22x40
	4700	56	45	3	25x40
	5600	48	38	3.1	25x50
	6800	40	32	3.6	25x50
	8200	41	33	3.8	30x40
	10000	34	27	4.3	35x50
	12000	28	23	4.8	35x60
	15000	22	18	5.5	35x60
	18000	16	14	6.2	35x80
80(100)	22000	12	10	7.3	35x80
	1500	133	107	1.7	22x40
	2200	91	73	2.2	25x40
	3300	61	49	2.8	25x50
	4700	43	34	3.6	30x50
	5600	48	38	3.8	30x50
	6800	40	32	4.1	30x60
	8200	41	33	4.7	35x50
	10000	34	27	5.2	35x50
	12000	28	23	5.8	35x70
100(125)	15000	22	18	6.4	35x80
	1000	200	160	1.4	22x30
	1200	166	133	1.6	22x40
	1500	133	107	1.8	22x40
	2200	91	73	2.2	25x40
	3300	61	49	3	30x50
	4700	43	34	4	30x60
	5600	32	21	5.2	35x50
	6800	21	16	6.5	35x60
	8200	15	8	7	35x60
160(200)	10000	7	4	8.2	35x70
	470	283	226	1.6	22x40
	560	237	190	1.9	22x40
	680	196	157	2.1	22x50
	820	162	130	2.4	25x40
	1000	133	107	2.7	25x50
	1500	89	71	3.7	30x40
	2200	73	58	4.5	35x50
	2700	59	45	5.7	35x50

Standard Ratings

WV (SV)	Cap.	Max ESR	Typ ESR	Ripple Current	Size φDxL
		20°C 120Hz		85°C 120Hz	
V	μF	mΩ	mΩ	Arms	mm
160(200)	3300	45	32	6.9	35x60
	3900	33	19	7.8	35x70
	4700	20	8	8.9	35x80
200(250)	220	600	483	1.1	22x30
	330	402	322	1.4	22x30
	470	283	226	1.8	22x40
	560	237	190	2	22x50
	680	196	157	2.3	22x50
	820	162	130	2.6	25x50
	1000	133	107	3.1	30x45
	1200	111	89	3.4	30x50
	1500	107	85	3.8	35x50
	1800	90	76	4.5	35x50
	2200	72	60	5.1	35x50
	2700	58	47	6.3	35x60
	3300	43	32	7	35x80
250(300)	220	905	724	1.1	22x30
	330	603	483	1.4	22x40
	470	424	339	1.8	25x40
	560	356	285	2	25x50
	680	293	235	2.3	25x50
	820	243	195	2.6	30x40
	1000	199	160	3	30x50
	1200	166	133	3.4	35x50
	1500	137	118	3.8	35x60
	1800	112	91	4.5	35x70
	2200	88	72	5	35x80
315(365)	220	905	724	1.1	22x40
	330	603	483	1.4	25x50
	470	424	339	1.8	30x45
	560	356	285	2	30x50
	680	293	235	2.3	35x40
	820	228	196	2.8	35x45
	1000	156	147	3.2	35x50
350(400)	220	905	724	1.2	25x40
	330	603	483	1.6	25x40
	470	424	339	2	25x50
	560	356	285	2.3	30x50
	680	293	235	2.6	35x50
	820	243	195	2.8	35x50
	1000	198	145	3.2	35x60
	1200	137	98	3.4	35x70
	1500	89	47	3.6	35x80

WV (SV)	Cap.	Max ESR	Typ ESR	Ripple Current	Size φDxL
		20°C 120Hz		85°C 120Hz	
V	μF	mΩ	mΩ	Arms	mm
400(450)	100	1990	1592	0.7	22x30
	120	1658	1327	0.8	22x30
	150	1327	1062	0.9	22x35
	220	905	724	1.1	22x40
	330	603	483	1.6	25x50
	470	424	339	2.1	30x45
	560	356	285	2.3	35x45
	680	293	235	2.7	35x50
	820	242	194	3.1	35x60
	1000	199	107	3.7	35x60
	1200	147	58	4.3	35x70
	1500	96	17	4.9	35x80
	1800	56	12	5.4	40x80
	2200	25	8	6.2	40x100
450(500)	100	1990	1592	0.73	22x30
	150	1327	1062	1.0	22x40
	220	905	724	1.2	25x40
	330	603	480	1.7	30x50
	470	424	339	2.2	35x50
	560	356	285	2.4	35x50
	680	293	235	2.8	35x60
	820	242	194	3.2	35x70
	1000	199	107	4.2	35x80
500(550)	100	1990	1592	0.9	25x30
	150	1327	1062	1.2	25x50
	220	905	724	1.6	30x50
	330	603	483	2.0	35x50
	470	424	339	2.6	35x60
	560	356	285	2.9	35x60
	680	293	235	3.2	35x70
	820	225	183	3.5	35x80