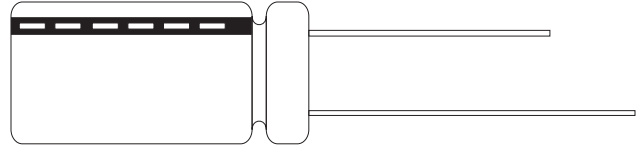


FEATURES

- 105°C, Solvent-proof type.
- Suitable for high reliability products.

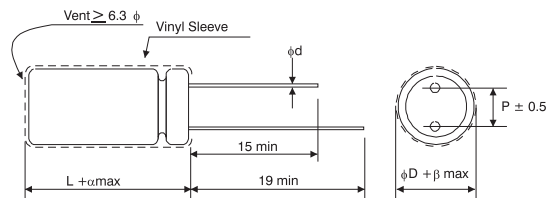


SPECIFICATIONS

Item	Performance									
	RJ				RJA					
Life	At 105°C 1000 Hrs				At 105°C 2000 Hrs					
Operating Temperature	-55°C ~ +105°C									
Capacitance Tolerance	± 20% (120Hz, 20°C)									
Leakage Current (at 20°C)	I = 0.01CV or 3 (μ A) whichever is greater (after 2 minutes) Where, C = rated capacitance in μ F. V=rated DC working voltage in V.									
Dissipaton Factor Tan δ at 120 Hz, 20°C	Rated Voltage	6.3	10	16	25	35	50	63		
	Tan δ(max)	0.23	0.20	0.16	0.14	0.12	0.10	0.09		
When the capacitance exceed 1000 μ F 0.02 shall be added every 1000 μ F increase..										
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below									
	Rated Voltage			6.3	10	16	25	35	50	63
	Impedance	Z(-25°C)	φ D<16	4	3	3	2	2	2	2
		Z(+20°C)	φ D>16	5	4	3	2	2	3	3
	Ratio	Z(-55°C)	φ D<16	8	6	4	4	4	3	3
Z(+20°C)		φ D>16	10	8	6	4	3	3	3	
Load Life Test	Test Time	1000hrs / 2000hrs								
	Capacitance Change	Within ± 20%								
	Dissipation Factor	Less than 200% of specified value.								
	Leakage Current	Within specified value								
	The above specification shall be satisfied when the capacitors are restored to 20°C after rated voltage applied for 1000/2000 hrs at 105°C.									
Shelf Life Test	Test Time	1000 Hrs								
	Capacitance Change	Within ≤ ± 20% of initial value								
	Dissipation Factor	Less than 200% of specified value								
	Leakage Current	Within Specified value								
	The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hrs at 105°C without voltage applied.									
Ripple Current & Frequency Multipliers	Freq. (Hz)	Cap. (μ F)	60	120	500	1K	10K up			
			Under 100	0.70	1.00	1.30	1.40	1.50		
			100 to 1000	0.75	1.00	1.20	1.30	1.35		
			1000 and above	0.80	1.00	1.10	1.12	1.15		
Riple Current & Temperature Multipliers	Temperature (°C)	45	70	85	105					
	Multipliers	1.95	1.78	1.40	1.00					
Standards	Satisfies Characteristic W of JIS C 5141									

LEAD SPACING AND DIAMETER

φD	5	6.3	8	10	13	16	18	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10
φ d	0.5		0.6		0.8		1.0	
α	1.0		1.5		2.0			
β	0.5							



PART NUMBER EXAMPLE RJ 221 M 1H BK 100 200

DIMENSIONS AND PERMISSIBLE RIPPLE CURRENT

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

Ripple Current: mA/RMS at 120Hz 105°C

μF	VDC	Code	6.3v(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1V)		50V(1H)		63V(1J)	
			$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
0.1	0R1												5 x 11	1.3	5 x 11	2.1
0.22	R22												5 x 11	2.9	5 x 11	3.2
0.33	R33												5 x 11	4.3	5 x 11	5.4
0.47	R47												5 x 11	7.1	5 x 11	7.1
1	010												5 x 11	13	5 x 11	15
2.2	2R2												5 x 11	20	5 x 11	26
3.3	3R3												5 x 11	30	5 x 11	31
4.7	4R7												5 x 11	33	5 x 11	36
10	100					5 x 11	36	5 x 11	40	5 x 11	45	5 x 11	50	5 x 11	54	
22	220					5 x 11	58	5 x 11	68	5 x 11	71	5 x 11	78	6.3 x 11	96	
33	330					5 x 11	76	5 x 11	78	6.3 x 11	90	6.3 x 11	96	8 x 11.5	141	
47	470			5 x 11	76	5 x 11	90	5 x 11	97	6.3 x 11	105	8 x 11.5	130	8 x 11.5	151	
100	101	5 x 11	103	5 x 11	111	6.3 x 11	133	6.3 x 11	142	8 x 11.5	170	8 x 11.5	188	10 x 12.5	235	
220	221	6.3 x 11	160	6.3 x 11	175	8 x 11.5	215	8 x 11.5	236	10 x 12.5	300	10 x 20	355	10 x 20	400	
330	331	5 x 11	140	5 x 11	150	6.3 x 11	180			8 x 11.5	270	10 x 16	335	10 x 16	360	
470	471	8 x 11.5	219	8 x 11.5	245	8 x 11.5	260	10 x 12.5	335	10 x 16	400	10 x 20	460	13 x 20	520	
1000	102	6.3 x 11	190	6.3 x 11	200			8 x 11.5	330	10 x 12.5	350	10 x 16	410	10 x 20	490	
2200	222	8 x 11.5	261	8 x 11.5	290	10 x 12.5	370	10 x 16	440	10 x 20	520	13 x 20	610	13 x 25	720	
3300	332	6.3 x 11	230	6.3 x 11	250	8 x 11.5	310	10 x 12.5	380	10 x 16	460	10 x 20	530	13 x 20	665	
4700	472	10 x 12.5	455	10 x 16	550	10 x 20	640	13 x 20	770	13 x 25	920	16 x 25	1080	16 x 31.5	1260	
		8 x 11.5	380	10 x 12.5	460	10 x 16	560	10 x 20	680	13 x 20	830	13 x 25	980	16 x 25	1190	
		10 x 20	750	13 x 20	860	13 x 25	1000	16 x 25	1170	16 x 31.5	1340	18 x 35.5	1530			
		10 x 20	760	13 x 20	920	13 x 25	1090	16 x 25	1260	16 x 25	1260	16 x 35.5	1470			
		13 x 20	920	13 x 20	1100	16 x 25	1300	16 x 31.5	1460	18 x 35.5	1650	22 x 40	1707			
		10 x 20	840			13 x 25	1170	16 x 25	1400	16 x 35.5	1610	18 x 35.5	1650			
		16 x 25	1330	16 x 25	1400	16 x 31.5	1600	18 x 35.5	1780	18 x 40	1900					
		16 x 20	1090	13 x 25	1260	16 x 25	1480	16 x 31.5	1710	18 x 35.5	1875					

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