ELNA

Miniature Aluminum Electrolytic Capacitors RJH series

Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

- Low Impedance capacitors.
- Guaranteed 5000 hours at 105℃. (φ10 : 3000 hours)
- Environmental : GREEN CAP™ , RoHS compliance.

Long life

RJH ⇦ RJ3

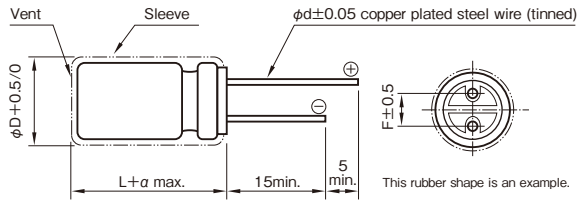
Marking color : White print on a black sleeve

Specifications

Item	Performance
Category temperature range (℃)	−55 to +105
Tolerance at rated capacitance (%)	±20 (20℃,120Hz)
Leakage current (μA) (max.)	0.01CV + 2 (after 2 minutes) C : Rated capacitance (μF) ; V : Rated voltage (V) (20℃)
Tangent of loss angle (tanδ)	Rated voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 tanδ (max.): 0.22 / 0.19 / 0.16 / 0.14 / 0.12 / 0.10 0.02 is added to every 1000μF increase over 1000μF. (20℃,120Hz)
Characteristics at high and low temperature	Rated voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 Impedance ratio (max.) Z−25℃/Z+20℃: 2 / 2 / 2 / 2 / 2 / 2 Impedance ratio (max.) Z−55℃/Z+20℃: 3 / 3 / 3 / 3 / 3 / 3 (120Hz)
Endurance (105℃) (Applied ripple current)	Test time: 5000 hours (φ10 : 3000 hours) Leakage current: The initial specified value or less Percentage of capacitance change: Within ±20% of initial value Tangent of the loss angle: 200% or less of the initial specified value
Shelf life (105℃)	Test time: 1000 hours Leakage current: The initial specified value or less Percentage of capacitance change: Within ±15% of initial value Tangent of the loss angle: 150% or less of the initial specified value Voltage application treatment : According to JIS C5101-4 4.1
Applicable standards	JIS C5101 - 1, - 4 (IEC 60384 - 1, - 4)

Outline Drawing

Unit : mm



φD	10	12.5	16	18
F	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.8	0.8
α	2.0	2.0	2.0	2.0

Coefficient of Frequency for Rated Ripple Current

Rated capacitance (μF) \ Frequency (Hz)	120	1k	10k	100k
82 to 270	0.70	0.85	0.90	1
330 to 1000	0.80	0.93	0.98	1
1200 to 15000	0.90	0.95	1.00	1

Product code system : 10V5600μF (*For general product)

RS*	RJH	562	M	1L	J31	300	T
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Lead-forming and packing code	Additional code

・For details, refer to the various "Product Code System" pages.
・Lead forming and packing code “300” : lead wire is long type and standard packing.
For standard packing, please refer to the "PACKING" page.

NOTE : Design, Specifications are subject to change without notice.
It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.

Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

Standard Ratings

Rated voltage (V) / Item / Case φD×L (mm)	Size code	6.3 (1J) Rated capacitance (μF)	ESR (Ω)	Impedance (Ω max.) 20℃	Impedance (Ω max.) −10℃	Rated ripple current (mArms)	10 (1L) Rated capacitance (μF)	ESR (Ω)	Impedance (Ω max.) 20℃	Impedance (Ω max.) −10℃	Rated ripple current (mArms)
10×12.5	F12	680	0.537	0.10	0.23	625	470	0.671	0.10	0.23	625
10×16	F16	820	0.446	0.080	0.18	825	560	0.563	0.080	0.18	825
10×20	F20	1200	0.305	0.062	0.14	1010	1000	0.316	0.062	0.14	1010
10×25	F25	1500	0.244	0.052	0.12	1190	1200	0.263	0.052	0.12	1190
10×30	F30	2200	0.181	0.044	0.099	1440	1500	0.211	0.044	0.099	1440
12.5×15	G15	• 1200	0.305	0.062	0.14	1010	• 1000	0.316	0.062	0.14	1010
12.5×20	G20	2200	0.181	0.042	0.095	1400	1800	0.176	0.042	0.095	1400
12.5×25	G25	2700	0.148	0.034	0.076	1690	2200	0.159	0.034	0.076	1690
12.5×30	G30	3900	0.111	0.030	0.068	1950	2700	0.130	0.030	0.068	1950
12.5×35	G35	4700	0.099	0.024	0.054	2220	3300	0.116	0.024	0.054	2220
12.5×40	G40	5600	0.089	0.021	0.047	2390	3900	0.098	0.021	0.047	2390
16×16	J16	• 2700	0.148	0.046	0.10	1310	• 1800	0.176	0.046	0.10	1310
16×20	J20	• 4700	0.099	0.034	0.077	1660	• 3300	0.116	0.034	0.077	1660
16×25	J25	5600	0.089	0.028	0.063	2070	3900	0.098	0.028	0.063	2070
16×31.5	J31	6800	0.079	0.025	0.056	2350	5600	0.080	0.025	0.056	2350
16×35.5	J35	8200	0.073	0.022	0.050	2550	6800	0.071	0.022	0.050	2550
16×40	J40	12000	0.059	0.018	0.041	2970	8200	0.067	0.018	0.041	2970
18×16	K16	• 3300	0.131	0.043	0.097	1460	• 2200	0.159	0.043	0.097	1460
18×20	K20	• 5600	0.089	0.030	0.068	1850	• 3900	0.098	0.030	0.068	1850
18×25	K25	• 6800	0.079	0.027	0.061	2120	• 4700	0.089	0.027	0.061	2120
18×31.5	K31	10000	0.064	0.023	0.052	2410	6800	0.071	0.023	0.052	2410
18×35.5	K35	12000	0.059	0.019	0.043	2680	8200	0.067	0.019	0.043	2680
18×40	K40	15000	0.054	0.017	0.038	3010	10000	0.059	0.017	0.038	3010

Rated voltage (V) / Item / Case φD×L (mm)	Size code	16 (1E) Rated capacitance (μF)	ESR (Ω)	Impedance (Ω max.) 20℃	Impedance (Ω max.) −10℃	Rated ripple current (mArms)	25 (1T) Rated capacitance (μF)	ESR (Ω)	Impedance (Ω max.) 20℃	Impedance (Ω max.) −10℃	Rated ripple current (mArms)
10×12.5	F12	330	0.805	0.10	0.23	625	220	1.06	0.10	0.23	625
10×16	F16	390	0.681	0.080	0.18	825	270	0.861	0.080	0.18	825
10×20	F20	680	0.391	0.062	0.14	1010	470	0.495	0.062	0.14	1010
10×25	F25	820	0.324	0.052	0.12	1190	560	0.415	0.052	0.12	1190
10×30	F30	1200	0.222	0.044	0.099	1440	820	0.284	0.044	0.099	1440
12.5×15	G15	• 680	0.391	0.062	0.14	1010	• 470	0.495	0.062	0.14	1010
12.5×20	G20	1200	0.222	0.042	0.095	1400	820	0.284	0.042	0.095	1400
12.5×25	G25	1500	0.177	0.034	0.076	1690	1000	0.233	0.034	0.076	1690
12.5×30	G30	2200	0.136	0.030	0.068	1950	1500	0.155	0.030	0.068	1950
12.5×35	G35	2700	0.111	0.024	0.054	2220	1800	0.130	0.024	0.054	2220
12.5×40	G40	3300	0.101	0.021	0.047	2390	2200	0.121	0.021	0.047	2390
16×16	J16	• 1500	0.177	0.046	0.10	1310	• 820	0.284	0.046	0.10	1310
16×20	J20	• 2200	0.136	0.034	0.077	1660	• 1500	0.155	0.034	0.077	1660
16×25	J25	2700	0.111	0.028	0.063	2070	1800	0.130	0.028	0.063	2070
16×31.5	J31	3900	0.086	0.025	0.056	2350	2700	0.099	0.025	0.056	2350
16×35.5	J35	4700	0.078	0.022	0.050	2550	3300	0.091	0.022	0.050	2550
16×40	J40	5600	0.072	0.018	0.041	2970	3900	0.077	0.018	0.041	2970
18×16	K16	• 1500	0.177	0.043	0.097	1460	• 1200	0.194	0.043	0.097	1460
18×20	K20	• 2700	0.111	0.030	0.068	1850	• 1800	0.130	0.030	0.068	1850
18×25	K25	• 3900	0.086	0.027	0.061	2120	• 2700	0.099	0.027	0.061	2120
18×31.5	K31	4700	0.078	0.023	0.052	2410	3300	0.091	0.023	0.052	2410
18×35.5	K35	6800	0.064	0.019	0.043	2680	3900	0.077	0.019	0.043	2680
18×40	K40	8200	0.061	0.017	0.038	3010	4700	0.071	0.017	0.038	3010

(Note) Rated ripple current : 105℃, 100kHz ; ESR. : 20℃, 120Hz ; Impedance : 100kHz

• : The black circles in the capacitance column denote semi-standard products.

Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

Standard Ratings

Rated voltage (V) / Case φD×L (mm)	Item code	35 (1G) Rated capacitance (μF)	ESR (Ω)	Impedance (Ω max.) 20℃	Impedance (Ω max.) −10℃	Rated ripple current (mArms)	50 (1U) Rated capacitance (μF)	ESR (Ω)	Impedance (Ω max.) 20℃	Impedance (Ω max.) −10℃	Rated ripple current (mArms)
10×12.5	F12	150	1.33	0.10	0.23	625	82	2.02	0.18	0.36	443
10×16	F16	180	1.11	0.080	0.18	825	100	1.66	0.15	0.30	553
10×20	F20	330	0.604	0.062	0.14	1010	180	0.922	0.085	0.17	676
10×25	F25	390	0.511	0.052	0.12	1190	220	0.754	0.075	0.15	876
10×30	F30	560	0.356	0.044	0.099	1440	330	0.503	0.055	0.11	1010
12.5×15	G15	• 330	0.604	0.062	0.140	1010	• 180	0.922	0.095	0.19	745
12.5×20	G20	560	0.356	0.042	0.095	1400	330	0.503	0.060	0.12	979
12.5×25	G25	680	0.293	0.034	0.076	1690	470	0.353	0.044	0.088	1180
12.5×30	G30	1000	0.200	0.030	0.068	1950	560	0.297	0.040	0.080	1310
12.5×35	G35	1200	0.166	0.024	0.054	2220	680	0.244	0.036	0.072	1470
12.5×40	G40	1500	0.133	0.021	0.047	2390	820	0.203	0.034	0.068	1590
16×16	J16	• 560	0.356	0.046	0.10	1310	• 330	0.503	0.065	0.13	982
16×20	J20	• 1000	0.200	0.034	0.077	1660	• 680	0.244	0.045	0.090	1210
16×25	J25	1200	0.166	0.028	0.063	2070	820	0.203	0.038	0.076	1490
16×31.5	J31	1800	0.111	0.025	0.056	2350	1000	0.166	0.032	0.064	1890
16×35.5	J35	2200	0.106	0.022	0.050	2550	1200	0.139	0.028	0.056	2140
16×40	J40	2700	0.087	0.018	0.041	2970	1500	0.111	0.026	0.052	2410
18×16	K16	• 680	0.293	0.043	0.097	1460	• 470	0.353	0.048	0.096	1180
18×20	K20	• 1200	0.166	0.030	0.068	1850	• 820	0.203	0.036	0.072	1450
18×25	K25	• 1800	0.111	0.027	0.061	2120	• 1000	0.166	0.032	0.064	1720
18×31.5	K31	2200	0.106	0.023	0.052	2410	1500	0.111	0.026	0.052	1970
18×35.5	K35	2700	0.087	0.019	0.043	2680	1800	0.074	0.025	0.050	2310
18×40	K40	3300	0.081	0.017	0.038	3010	2200	0.073	0.024	0.048	2530

(Note) Rated ripple current : 105°C, 100kHz ; ESR. : 20°C, 120Hz ; Impedance : 100kHz

• : The black circles in the capacitance column denote semi-standard products.