

RZD, RMD VERTICAL CHIP TYPE ALUMINUM ELECTROLYTIC CAPACITORS ELNA

Chip Type, 105°C Use, Low ESR, High CV Capacitors

GREEN
CAP

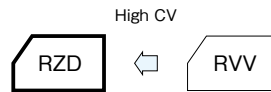
SMD

Low ESR

105°C
2000hours

Anti-
cleaning
solvent

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guaranteed 2000 hours at 105°C.



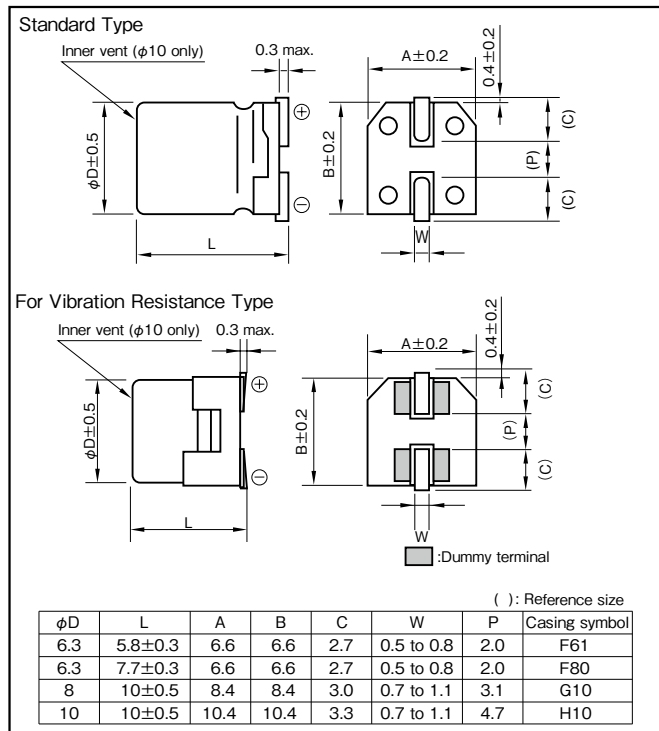
Marking color : Black print

Specifications

Item	Performance							
Category temperature range (°C)	-55 to +105							
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)							
Leakage current (μA) (max.)	0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (μF) , V : Rated voltage (V) (20°C)							
Tangent of loss angle (tanδ)	Rated voltage (V)		6.3	10	16	25	35	50
	tanδ (max.)		0.26	0.19	0.16	0.14	0.12	0.10
	0.02 is added to every 1000μF increase over 1000μF. (20°C,120Hz)							
Characteristics at high and low temperature	Rated voltage (V)		6.3	10	16	25	35	50
	Impedance ratio (max.)	Z-25°C/Z+20°C	2	2	2	2	2	2
		Z-40°C/Z+20°C	3	3	3	3	3	3
		Z-55°C/Z+20°C	4	4	4	3	3	3
(120Hz)								
Endurance (105°C) (Applied ripple current)	Test time		2000 hours					
	Leakage current		The initial specified value or less					
	Percentage of capacitance change		Within ±30% of initial value					
	Tangent of the loss angle		200% or less of the initial specified value					
Shelf life (105°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1							
Applicable standards	JIS C5101 - 1, - 18 (IEC 60384 - 1, - 18)							

Outline Drawing

Unit : mm



Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	50 · 60	120	1k	10k · 100k
Rated voltage (V)				
6.3 to 50	0.50	0.50	0.75	1

Part numbering system

Standard Type (example : 35V150μF)

RZD	—	35	V	151	M	F80	U	—	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

For Vibration Resistance Type (example : 25V820μF)

RMD	—	25	V	821	M	H10	U	—	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

Refer to individual page.
(Soldering conditions, Land pattern size, The taping specifications)

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.

CAT.No.2021/2022E

RZD, RMD

VERTICAL CHIP TYPE ALUMINUM ELECTROLYTIC CAPACITORS

ELNA

Standard Ratings

Rated voltage (V) Item Rated capacitance (μF)	6.3				10				16			
	Case φD × L (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)	Case φD × L (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)	Case φD × L (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)
150	—	—	—	—	—	—	—	—	6.3 × 5.8	F61	0.26	300
220	—	—	—	—	6.3 × 5.8	F61	0.26	300	6.3 × 5.8	F61	0.26	300
330	6.3 × 5.8	F61	0.26	300	6.3 × 7.7	F80	0.16	600	6.3 × 7.7	F80	0.16	600
470	6.3 × 7.7	F80	0.16	600	6.3 × 7.7	F80	0.16	600	—	—	—	—
680	6.3 × 7.7	F80	0.16	600	—	—	—	—	8 × 10	G10	0.08	850
1000	—	—	—	—	8 × 10	G10	0.08	850	10 × 10	H10	0.06	1190
1500	8 × 10	G10	0.08	850	10 × 10	H10	0.06	1190	—	—	—	—
2200	10 × 10	H10	0.06	1190	—	—	—	—	—	—	—	—

Rated voltage (V) Item Rated capacitance (μF)	25				35				50			
	Case φD × L (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)	Case φD × L (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)	Case φD × L (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)
47	—	—	—	—	—	—	—	—	6.3 × 5.8	F61	0.68	195
100	—	—	—	—	6.3 × 5.8	F61	0.26	300	6.3 × 7.7	F80	0.34	350
150	6.3 × 5.8	F61	0.26	300	6.3 × 7.7	F80	0.16	600	—	—	—	—
220	6.3 × 7.7	F80	0.16	600	—	—	—	—	8 × 10	G10	0.18	670
330	—	—	—	—	8 × 10	G10	0.08	850	10 × 10	H10	0.12	900
470	8 × 10	G10	0.08	850	—	—	—	—	—	—	—	—
560	—	—	—	—	10 × 10	H10	0.06	1190	—	—	—	—
820	10 × 10	H10	0.06	1190	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 105°C , 100kHz
ESR : 20°C , 100kHz