

■ Type List for Aluminum Electrolytic Capacitors

★ : New series  
☆ : Upgrade

● Chip Type Aluminum Electrolytic Capacitors

Category	Series	Application	Category Temp. Range (°C)		Life time Range (hours)		Rated Voltage Range (V.DC)		Rated Capacitance Range (μF)		Size range φD x L (mm)		Outside color	JIS Configurati	Note
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.			
Standard	VV5	85 deg C, standard	-40	+85	2000		4	100	1	2200	4×5.3	12.5×13.5	Silver	32	
	VVS	105 deg C, standard	-55	+105	1000		6.3	50	1	1500	4×5.3	10×10.5	Silver	32	
	VVR	105 deg C, standard	-40	+105	2000		4	50	1	1500	4×5.3	10×10.5	Silver	32	
	VV9	105 deg C, bipolar standard	-40	+105	2000		6.3	50	1	47	4×5.8	6.3×5.8	Silver	32	
High Reliability	VVC	105 deg C, Long life	-40	+105	3000	5000	6.3	50	1	1000	4×5.8	10×10	Silver	32	
	VZH	105 deg C, Long life	-55	+105	5000	7000	6.3	35	22	1000	6.3×5.8	10×10	Silver	32	
	VMH	VZH series, for vibration resistance type													
High Reliability, Low ESR, Low Impedance	VVZ	105 deg C, low ESR	-55	+105	1000	5000	6.3	35	4.7	2700	4×5.3	12.5×13.5	Silver	32	
	VVD	105 deg C, low ESR, long life	-55	+105	2000	5000	6.3	100	4.7	2200	4×5.8	12.5×13.5	Silver	32	
	VVV	105 deg C, low ESR	-55	+105	2000		6.3	50	33	1500	6.3×5.8	10×10	Silver	32	
	VTV	VVV series, for vibration resistance type													
	VZD	105 deg C, low ESR, high CV	-55	+105	2000		6.3	50	22	2200	6.3×5.8	10×10	Silver	32	
	VMD	VZD series, for vibration resistance type													
	VZK	105 deg C, low ESR, high CV	-55	+105	2000		25	35	470	1000	8×10	10×10	Silver	32	
	VVT	125 deg C, low ESR	-40	+125	1000	5000	10	100	4.7	1000	4×5.8	12.5×13.5	Silver	32	
	VZJ	125 deg C, low ESR, long life. Specify ESR after endurance test.	-40	+125	2000	3000	10	50	22	470	6.3×7.7	10×10	Silver	32	
	VMJ	VZJ series, for vibration resistance type													
	VZF	125 deg C, low ESR, high CV, long life	-40	+125	1000	4000	10	50	22	680	6.3×5.8	10×10	Silver	32	
	VMF	VZF series, for vibration resistance type													
	VZE	125 deg C, low ESR, high CV, long life. Specify ESR after endurance test.	-40	+125	2000		35		47	100	6.3×7.7		Silver	32	
	VME	VZE series, for vibration resistance type													
	VVX	125 deg C, high temperature	-40	+135	1000		25	35	22	330	8×10	10×10	Silver	32	
VTX	VVX series, for vibration resistance type														
For Vibration Resistance	VTZ	105 deg C, low ESR, 30G vibration resistance	-55	+105	1000	5000	6.3	35	33	8200	6.3×5.8	18×21.5	Silver	32	
	VTD	105 deg C, low ESR, long life, 30G vibration resistance	-55	+105	2000	4000	6.3	100	10	8200	6.3×5.8	18×21.5	Silver	32	
	VTT	125 deg C, low ESR, 30G vibration resistance	-40	+125	1000	5000	10	100	10	4700	6.3×5.8	18×21.5	Silver	32	
	VTQ	150 deg C, high temperature, 30G vibration resistance	-40	+150	1000		10	35	33	470	8×10	10×10	Silver	32	

\* Be sure to "Cautions for using Aluminum Electrolytic capacitors", before using these products.

● Miniature Aluminum Electrolytic Capacitors

Category	Series	Application	Category Temp. Range (°C)		Life time Range (hours)		Rated Voltage Range (V.DC)		Rated Capacitance Range (μF)		Size range φD x L (mm)		Outside color	JIS Configurati	Note
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.			
High Reliability, Low ESR, Low Impedance	RJB	105 deg C, miniature, low impedance	-55	+105	2000	5000	6.3	100	3.3	10000	5×11.5	16×31.5	Black	04	
	RJH	105 deg C, low impedance	-55	+105	2000	5000	6.3	100	1	15000	5×11.5	18×40	Black	04	
	RJF	105 deg C, miniature, extra low impedance	-40	+105	1000	10000	6.3	100	5.6	6800	4×7	18×40	Black	04	
	RJM	105 deg C, miniature, long life, extra low impedance	-40	+105	6000	10000	6.3	50	27	8200	5×11.5	16×25	Black	04	
	RJD	105 deg C, miniature, low ESR	-55	+105	2000	8000	6.3	100	10	18000	5×11.5	18×40	Black	04	
	RKD	125 deg C, miniature, low ESR	-40	+125	2000	5000	10	80	100	8200	8×12	18×40	Black	04	
	RKB	135 deg C, miniature, low ESR	-40	+135	2000	3000	10	80	220	6800	10×12.5	18×40	Silver	04	
	RKC	135 deg C, high CV, low ESR, high ripple current	-40	+135	2000	3000	25	80	270	12000	12.5×20	18×40	Silver	04	
	RQA	150 deg C, high temperature	-40	+150	1000		10	35	220	4700	10×14.5	18×42.5	Silver	04	
For Air bag	RQB	150 deg C, high temperature, high ripple current	-40	+150	2000		35	50	1300	4700	16×26.5	18×42.5	Silver	04	
	RJE	105 deg C, capacitor for SRS airbag	-55	+105	5000		25	35	830	11000	12.5×15	18×40	Black	04	
For Vibration Resistance	RJK	105 deg C, high CV capacitor for SRS airbag	-55	+105	5000		25	35	2500	17000	16×20	18×40	Black	04	
	RPK	125 deg C, NC terminal 30G vibration resistance	-40	+125	4000	5000	10	80	220	8200	12.5×15	18×40	Black	04	
	RKE	125 deg C, 40G vibration resistance	-40	+125	5000		25	50	1200	8200	16×31.5	18×40	Silver	04	
	RKF	135 deg C, 40G vibration resistance	-40	+135	2000	3000	25	80	290	10000	12.5×25	18×40	Silver	04	
	RKG	140 deg C, 40G vibration resistance	-40	+150	1000	2000	25	80	800	4700	18×42		Silver	04	

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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.

**Type List for Aluminum Electrolytic Capacitors**

★ : New series  
☆ : Upgrade

**Aluminum Electrolytic Capacitors for Audio**

Category	Series	Application	Category Temp. Range (°C)		Life time Range (hours)	Rated Voltage Range (V.DC)		Rated Capacitance Range (μF)		Size range φD x L (mm)		Outside color	JIS Configurati	Note
			Min.	Max.		Min.	Max.	Min.	Max.	Min.	Max.			
For Audio	VVM	105 deg C, chip type capacitor for audio.	-55	+105	2000	6.3	50	1	470	4 × 5.8	10 × 10.5	Silver	32	
	VVG	85 deg C, chip type capacitor for audio.	-40	+85	2000	6.3	35	3.3	470	4 × 5.3	10 × 10	Silver	32	
	RFO	85 deg C, miniature capacitor for audio(PURECAP).	-40	+85	1000	6.3	63	1	15000	5 × 11	18 × 35.5	Black	04	
	RW5	105 deg C, miniature capacitor for audio.	-55	+105	1000	16	25	100	15000	5 × 11.5	18 × 40	Black	04	

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**Some of the series listed in the below table have been removed from the catalogue (discontinued series). Please select from the new series for a designing your(new) application.**

Category	Series	Application	Category Temp. Range (°C)		Life time Range (hours)		Rated Voltage Range (V.DC)		Rated Capacitance Range (μF)		Size range φD x L (mm)		Substitute series to recommend
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
Chip	VV2	85 deg C, 5.3mm L	-40	+85	2000		4	50	1	220	3 × 5.3	6.3 × 5.3	VV5
	VV3	85 deg C, Standard	-40	+85	2000		6.3	50	4.7	330	4 × 5.3	6.3 × 7.7	VV5
	VV1	85 deg C, Large Capacitance	-40	+85	2000		6.3	100	10	2200	8 × 6.5	12.5 × 13.5	VV5
	VV4	85 deg C, 4.5mm L	-40	+85	2000		6.3	50	10	100	6.3 × 4.5		—
	VVB	85 deg C, bipolar standard	-40	+85	2000		6.3	50	1	47	4 × 5.3	6.3 × 5.3	VV9
	VVL	105 deg C, 5.7mm L	-55	+105	2000		6.3	50	1	100	4 × 5.7	6.3 × 5.7	VVZ
	VVJ	105 deg C, Large Capacitance	-55	+105	2000	5000	6.3	100	10	1000	8 × 6.5	12.5 × 13.5	VVD
	VVE	105 deg C, 4.5mm L	-55	+105	2000	5000	6.3	100	10	1000	6.3 × 4.5		—
Miniature	RC3	85 deg C, 5mmL	-40	+85	1000		4	50	1	470	4 × 5	8 × 5	—
	R3S	105 deg C, 5mmL	-55	+105	1000		6.3	50	1	100	4 × 5	6.3 × 5	—
	RB3	85 deg C, 5mmL, Bipolar	-40	+85	1000		6.3	50	0.33	47	4 × 5	6.3 × 5	—
	RC2	85 deg C, 7mmL	-40	+85	1000		4	100	1	330	4 × 7	8 × 7	—
	R2S	105 deg C, 7mmL	-55	+105	1000		6.3	50	1	100	4 × 7	6.3 × 7	—
	RB2	85 deg C, 7mmL, Bipolar	-40	+85	1000		6.3	50	0.33	47	4 × 7	6.3 × 7	—
	RE3	85 deg C, Standard	-40	+85	2000		6.3	450	0.47	22000	5 × 11	18 × 40	—
	R2B	85 deg C, Bipolar	-40	+85	2000		6.3	100	1	4700	5 × 11	18 × 35.5	—
	RJP	105 deg C, Bipolar	-40	+105	1000	2000	6.3	50	1	6800	5 × 11	18 × 35.5	—
	RJ5	105 deg C, Standard	-55	+105	1000		6.3	100	1	22000	5 × 11	18 × 40	—
	RJ4	105 deg C, Standard	-55	+105	1000	2000	6.3	100	1	22000	5 × 11	18 × 40	—
	RJ3	105 deg C, Standard	-55	+105	1000	2000	6.3	100	1	15000	5 × 11	18 × 35.5	—
	RLB	85 deg C, Low leakage current	-40	+85	1000		6.3	50	1	2200	5 × 11	18 × 35.5	—

Category	Series	Application	Category Temp. Range (°C)		Life time Range (hours)	Rated Voltage Range (V.DC)		Rated Capacitance Range (μF)		Size range φD x L (mm)		Substitute series to recommend
			Min.	Max.		Min.	Max.	Min.	Max.	Min.	Max.	
For Audio	VVF	Chip Type (SILMIC)	-40	+85	2000	10	50	1	100	4 × 5.3	8 × 10	—
	RFS	High Grade (SILMIC II)	-40	+85	1000	6.3	100	3.3	3300	5 × 11	18 × 40	—
	R0S	High Grade (SILMIC)	-40	+85	1000	16	100	10	2200	6.3 × 11	18 × 40	—
	VV0	Chip Type (PURECAP)	-40	+85	2000	6.3	50	0.33	1000	4 × 5.3	10 × 10	—
	R0B	Miniaturized Standard (TONEREX)	-40	+85	1000	6.3	100	1	10000	5 × 11	18 × 40	—
	RA3	Miniaturized Standard	-40	+85	2000	6.3	100	1	22000	5 × 11	18 × 35.5	—
	RBD	Miniaturized Bipolar	-40	+85	2000	6.3	100	1	4700	5 × 11	18 × 35.5	—

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