

## Capacitor Series Table

### ● Organic Conductive Polymer Capacitors (OP-CAP)

Series	Features	Temperature & Endurance	Rated Voltage Range (V <sub>DC</sub> )	Capacitance Range (μF)	Page	
SMD Type	OCV	Standard	105°C, 2,000 Hrs	2.5 ~ 35	6.8 ~ 1,500	29
	OVK	Long Life	105°C, 5,000 Hrs	2.5 ~ 35	10 ~ 1,500	32
	OCVZ	Downsize, Super Low ESR	105°C, 2,000 Hrs	2.5 ~ 35	22 ~ 2,700	35
	OVH	Ultra Low ESR	105°C, 2,000 Hrs	2 ~ 16	150 ~ 2,200	38
	OCVU	High Temperature Usage, 125°C	125°C, 1,000 ~ 2,000 Hrs	2.5 ~ 16	180 ~ 1,500	40
	OVA	Standard	105°C, 15,000 Hrs	2.5 ~ 25	10 ~ 1,500	42
	OVB	Low ESR	105°C, 20,000 Hrs	2.5 ~ 25	12 ~ 2,700	45
	OVE	Low ESR	105°C, 15,000 Hrs	2.5 ~ 16	33 ~ 2,700	47
	OVJ	Low ESR, Downsize	105°C, 15,000 Hrs	2.5 ~ 25	82 ~ 1,200	50
	OVG	16 ~ 25V	105°C, 15,000 Hrs	16 ~ 25	10 ~ 1,000	52
	OVF	Ultra Low ESR	105°C, 15,000 Hrs	2 ~ 10	120 ~ 1,000	54
	OVD	Down Size	105°C, 15,000 Hrs	2.5 ~ 16	100 ~ 560	56
OVS	Long Life	105°C, 20,000 Hrs	4 ~ 16	39 ~ 560	58	
Radial Type	OCR	Standard	105°C, 2,000 Hrs	2.5 ~ 35	6.8 ~ 1,500	60
	OCRZ	Downsize, Super Low ESR	105°C, 2,000 Hrs	2.5 ~ 35	47 ~ 3,900	62
	ORE	Ultra Low ESR, Long Life	105°C, 5,000 Hrs	2.5 ~ 35	22 ~ 2,700	65
	OCRK	Long Life	105°C, 5,000 Hrs	2.5 ~ 35	68 ~ 820	68
	OCRU	High Temperature Usage, 125°C	125°C, 1,000 ~ 2,000 Hrs	2.5 ~ 20	100 ~ 1,200	70
	ORS	Standard	105°C, 15,000 Hrs	2.5 ~ 35	18 ~ 1,500	72
	ORA	Low ESR	105°C, 15,000 Hrs	2.5 ~ 16	47 ~ 1,500	74
	ORC	Low ESR, High Capacitance	105°C, 15,000 Hrs	2.5 ~ 16	270 ~ 2,700	76
	ORG	16 ~ 35V	105°C, 15,000 Hrs	16 ~ 35	56 ~ 2,700	78
	ORF	Long Life, Low ESR	105°C, 20,000 Hrs	2 ~ 16	100 ~ 1,600	80
	ORB	Long Life	105°C, 20,000 Hrs	2.5 ~ 6.3	470 ~ 820	82
	ORD	Long Life, Down Size	105°C, 20,000 Hrs	2.5 ~ 6.3	220 ~ 560	83

### ● Conductive Polymer Hybrid Capacitors

Series	Features	Temperature & Endurance	Rated Voltage Range (V <sub>DC</sub> )	Capacitance Range (μF)	Page	
SMD Type	HBV	Ultra Low ESR, Long Life	105°C, 10,000 Hrs	16 ~ 80	10 ~ 470	88
	HBW	High Temperature Usage, 125°C	125°C, 4,000 Hrs	16 ~ 80	10 ~ 470	90
	HBO	Higher Capacitance	125°C, 4,000 Hrs	25 ~ 35	56 ~ 470	92
	HBZ	Big Size	125°C, 4,000 Hrs	25 ~ 63	100 ~ 560	94
	HUW	High Temperature Usage, 135°C	135°C, 4,000 Hrs	16 ~ 63	22 ~ 560	95
	HUE	High Temperature Usage, 145°C	145°C, 2,000 Hrs	25 ~ 63	33 ~ 330	97
	HUJ	High Temperature Usage, 150°C	150°C, 1,000 Hrs	25 ~ 63	33 ~ 270	98
Radial Type	HBR	Ultra Low ESR, Long Life	105°C, 10,000 Hrs	16 ~ 80	10 ~ 470	99
	HBS	High Temperature Usage, 125°C	125°C, 4,000 Hrs	16 ~ 80	10 ~ 470	101
	HRW	High Temperature Usage, 135°C	135°C, 4,000 Hrs	25 ~ 63	100 ~ 330	103
	HRE	High Temperature Usage, 145°C	145°C, 2,000 Hrs	25 ~ 63	33 ~ 330	104
	HRJ	High Temperature Usage, 150°C	150°C, 1,000 Hrs	25 ~ 63	33 ~ 270	105

### ● SMD Aluminum Electrolytic Capacitors

Series	Features	Temperature & Endurance	Rated Voltage Range (V <sub>DC</sub> )	Capacitance Range (μF)	Page	
SMD Type	VES	4.5 / 5.3 mmL, 105°C	105°C, 1,000 Hrs	6.3 ~ 50	1 ~ 100	107
	VEJ	Standard, 105°C	105°C, 2,000 Hrs	6.3 ~ 450	1 ~ 8,200	108
	VEU	Long Life, 105°C	105°C, 3,000 ~ 5,000 Hrs	6.3 ~ 450	1 ~ 1,500	110
	VEZ	Low ESR, Downsize	105°C, 1,000 Hrs	6.3 ~ 50	1 ~ 220	112
	VEH	Low ESR	105°C, 2,000 Hrs	6.3 ~ 50	3.3 ~ 1,000	113
	VZH	Low ESR, High Reliability	105°C, 2,000 ~ 5,000 Hrs	6.3 ~ 100	1 ~ 8,200	115
	VZR	Low ESR, Long Life	105°C, 7,000 Hrs	6.3 ~ 50	10 ~ 470	118
	VZL	Low ESR, High CV	105°C, 2,000 Hrs	6.3 ~ 50	4.7 ~ 1,500	120
	VZS	Low ESR, High CV	105°C, 2,000 Hrs	6.3 ~ 50	22 ~ 2,200	122

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### ● SMD Aluminum Electrolytic Capacitors

Series	Features	Temperature & Endurance	Rated Voltage Range (V <sub>DC</sub> )	Capacitance Range (μF)	Page	
SMD Type	VZT	Ultra Low ESR, High Reliability	105°C, 2,000 Hrs	6.3 ~ 50	10 ~ 2,200	124
	VZU	Ultra Low ESR, High Reliability	105°C, 3,000 ~ 5,000 Hrs	6.3 ~ 50	220 ~ 2,200	124
	VUA	High Temperature Usage, 125°C	125°C, 1,000 ~ 2,000 Hrs	10 ~ 63	10 ~ 4,700	126
	VUP	High Temperature Usage, 125°C, Low ESR	125°C, 2,000 ~ 4,000 Hrs	10 ~ 100	10 ~ 3,300	128
	VUX	High Temperature Usage, 135°C, Low ESR	135°C, 2,000 Hrs	10 ~ 50	47 ~ 3,300	130
	VUK	High Temperature Usage, 125°C	125°C, 3,000 ~ 5,000 Hrs	10 ~ 63	100 ~ 3,300	132
	VUJ	High Temperature Usage, 150°C	150°C, 1,000 Hrs	10 ~ 50	33 ~ 3,300	134
	VGB	Bi-polarized, 105°C	105°C, 2,000 Hrs	6.3 ~ 50	1 ~ 47	136
	VGN	Bi-polarized, 105°C	105°C, 2,000 Hrs	6.3 ~ 100	22 ~ 3,300	137

### ● Aluminum Electrolytic Capacitors

Series	Features	Temperature & Endurance	Rated Voltage Range (V <sub>DC</sub> )	Capacitance Range (μF)	Page	
Radial Type	RGA	Standard, 105°C	105°C, 2,000 Hrs	6.3 ~ 450	2.2 ~ 33,000	140
	RJA	Wide Temperature Range	105°C, 2,000 Hrs	6.3 ~ 100	2.2 ~ 22,000	142
	RUK	High Temperature Usage, Long Life, 125°C	125°C, 3,000 ~ 5,000 Hrs	10 ~ 63	10 ~ 1,000	144
	RUZ	High Temperature Usage, Low Imp., 125°C	125°C, 3,000 ~ 5,000 Hrs	25 ~ 100	220 ~ 6,800	146
	RUA	High Temperature Usage, 130°C	130°C, 2,000 ~ 3,000 Hrs	10 ~ 450	4.7 ~ 1,000	148
	RXJ	Low ESR, Longer Life	105°C, 2,000 ~ 5,000 Hrs	6.3 ~ 100	2.2 ~ 4,700	150
	RXK	Low ESR, Downsize, Longer Life	105°C, 2,000 ~ 5,000 Hrs	6.3 ~ 63	12 ~ 10,000	153
	RXW	Low ESR, High Reliability	105°C, 4,000 ~ 7,000 Hrs	6.3 ~ 100	2.2 ~ 15,000	157
	RZW	Low ESR, High Reliability	105°C, 4,000 ~ 10,000 Hrs	6.3 ~ 63	3.3 ~ 18,000	160
	RXC	High Voltage, High Ripple Current	105°C, 2,000 ~ 3,000 Hrs	160 ~ 450	1.5 ~ 330	163
	RGL	High Voltage, High Ripple Current, Slim Type	105°C, 2,000 Hrs	400, 420, 450	15 ~ 220	171
	RXB	High Voltage, High Ripple Current, Longer Life	105°C, 5,000 Hrs	160 ~ 450	4.7 ~ 330	165
	RPL	High Voltage, High Ripple Current, Longer Life, Slim Type	105°C, 5,000 Hrs	400, 420, 450	33 ~ 150	173
	RXQ	High Voltage, High Ripple Current, Long Life	105°C, 8,000 ~ 10,000 Hrs	160 ~ 450	6.8 ~ 330	167
	RLD	High Voltage, High Ripple Current, Longer Life	105°C, 12,000 Hrs	160 ~ 450	15 ~ 560	169
	RQL	High Voltage, High Ripple Current, Long Life, Slim Type	105°C, 10,000 Hrs	400, 420, 450	33 ~ 180	175
	RXR	High Voltage, High Ripple Current, Downsize	105°C, 2,000 Hrs	400, 450	22 ~ 220	177
RA	Low Leakage Current, 105°C	105°C, 1,000 Hrs	6.3 ~ 100	2.2 ~ 4,700	179	
Low - profile	SG	7 mmL, Standard, 105°C	105°C, 1,000 Hrs	4 ~ 63	1 ~ 330	181
	SA	7 mmL, Low Leakage Current, 105°C	105°C, 1,000 Hrs	4 ~ 63	1 ~ 100	182
	SJA	7 mmL, Wide Temperature Range	105°C, 2,000 Hrs	4 ~ 63	1 ~ 470	183
	SSG	5 mmL, Standard, 105°C	105°C, 1,000 Hrs	4 ~ 50	1 ~ 220	184
	SXJ	5 ~ 7 mmL, Low ESR	105°C, 1,000 Hrs	6.3 ~ 35	4.7 ~ 220	185
Bi - polarized	RNG	Bi-polarized, 105°C	105°C, 2,000 Hrs	6.3 ~ 250	0.47 ~ 2,200	186
Large Size	LS	Snap-in, Standard	85°C, 3,000 Hrs	16 ~ 500	56 ~ 68,000	189
	LS2	Snap-in, For Over Voltage Vent Operation Test	85°C, 2,000 Hrs	200, 250, 400, 450	120 ~ 1,800	200
	LSL	Snap-in, 15 mmL, 105°C	105°C, 2,000 Hrs	160 ~ 400	39 ~ 390	203
	LSG	Snap-in, Standard, 105°C	105°C, 2,000 Hrs	16 ~ 500	82 ~ 47,000	206
	LSM	Snap-in, Longer Life	105°C, 3,000 Hrs	16 ~ 500	56 ~ 22,000	215
	LSR	Snap-in, Longer Life, High Ripple Current	105°C, 3,000 Hrs	400, 450	82 ~ 680	223
	LSK	Snap-in, Long Life	105°C, 5,000 Hrs	160 ~ 500	39 ~ 1,800	226
	LSP	Snap-in, Long Life	105°C, 7,000 Hrs	350, 400, 450	47 ~ 680	232
	LHM	Snap-in, High Speed Charge / Discharge	105°C, 3,000 Hrs	350, 400, 420, 450	82 ~ 820	236
	MEA	Screw Terminal, Standard, 85°C	85°C, 2,000 Hrs	10 ~ 450	270 ~ 820,000	241
	MEK	Screw Terminal, Long Life, 85°C	85°C, 5,000 Hrs	350 ~ 525	1,000 ~ 18,000	252
	MEQ	Screw Terminal, Long Life, 85°C	85°C, 20,000 Hrs	350, 400, 450	1,000 ~ 18,000	257
	MGA	Screw Terminal, Standard, 105°C	105°C, 2,000 Hrs	16 ~ 400	180 ~ 470,000	261
	MGK	Screw Terminal, Long Life, 105°C	105°C, 5,000 Hrs	350, 400, 450	1,000 ~ 10,000	267
	MKR	Screw Terminal, High Speed Charge / Discharge	85°C, 5,000 Hrs	350, 400, 450	1,000 ~ 18,000	270