

Miniature Aluminum Electrolytic Capacitors

Classification	Series	Configuration	Applications	Category Temperature Range (°C)	Features					Rated Voltage Range (V.D.C)	Rated Capacitance Range (μF)	Tolerance on Rated Capacitance (%)	Page
					Standard type	Smaller-sized & low profile	Low impedance	Long life	Anti-cleaning solvent				
Ultra-Miniature type	MA	04	5mmL, Standard, For General Purposes	-40 to +85	●				●	4 to 50	0.1 to 470	± 20	115
	MP	04	5mmL, Bi-Polarized	-40 to +85	●				●	6.3 to 50	0.1 to 47	± 20	116
	MT	04	5mmL, Wide Temperature Range	-55 to +105	●				●	4 to 50	0.1 to 100	± 20	117
	MF	04	5mmL, Low Impedance	-55 to +105			●		●	6.3 to 35	1 to 100	± 20	118
	MV	04	5mmL, Long Life Assurance	-40 to +105				●		4 to 50	0.1 to 100	± 20	119
	SA	04	7mmL, For General Purposes	-40 to +85	●				●	6.3 to 50	0.1 to 220	± 20	120
	SR	04	7mmL, High C / V	-40 to +85		●			●	4 to 50	0.1 to 470	± 20	120
	SP	04	7mmL, Bi-Polarized	-40 to +85	●				●	6.3 to 50	0.1 to 220	± 20	121
	ST	04	7mmL, Wide Temperature Range	-55 to +105	●				●	6.3 to 50	0.1 to 220	± 20	122
	SV	04	7mmL, Long Life Assurance	-40 to +105				●		6.3 to 50	0.1 to 220	± 20	123
	SF	04	7mmL, Low Impedance	-55 to +105			●		●	6.3 to 35	6.8 to 220	± 20	124
Standard type	VK	04	Miniature Sized, Standard	-40 (-25) to +85		●			▲	6.3 to 450	0.1 to 68000	± 20	126
	VR	04	Standard	-40 (-25) to +85	●				▲	6.3 to 450	0.1 to 33000	± 20	128
	VX	02	Standard, For General Purposes	-40 (-25) to +85	●				▲	6.3 to 450	0.47 to 10000	± 20	130
	VY	04	Miniature Sized, Wide Temperature Range	-55 (-40, -25) to +105		●			▲	6.3 to 450	0.1 to 68000	± 20	132
	VZ	04	Wide Temperature Range	-55 (-40, -25) to +105	●				▲	6.3 to 450	0.1 to 33000	± 20	134
	RS	04	Compact & Standard For General Purposes	-40 to +85		●			▲	6.3 to 400	0.1 to 10000	± 20	136
	RZ	04	Low-Profile Sized, Wide Temperature Range	-55 (-40) to +105		●			▲	6.3 to 400	0.1 to 10000	± 20	138
	RU	04	12.5mmL	-40 (-25) to +85		●			▲	6.3 to 450	6.8 to 6800	± 20	140
	RY	04	12.5mmL Wide Temperature Range	-55 (-40, -25) to +105		●			▲	6.3 to 450	6.8 to 4700	± 20	142
	VP	04	Bi-Polarized	-40 to +85	●				●	6.3 to 100	0.47 to 6800	± 20	144
	EP	04	Bi-Polarized, Wide Temperature Range	-55 to +105	●				●	6.3 to 100	0.47 to 6800	± 20	125
High Reliability type	PM	04	Extremely Low Impedance, High Reliability	-55 (-40, -25) to +105			●	●	▲	6.3 to 450	0.47 to 15000	± 20	146
	PW	04	Miniature Sized, Low Impedance, High Reliability	-55 (-40, -25) to +105		●	●	●	▲	6.3 to 450	0.47 to 15000	± 20	153
	TT	04	Miniature Sized, Low Impedance, High Reliability	-40 to +105		●	●	●	●	6.3 to 50	1 to 470	± 20	158
	PA	04	Miniature Sized, Low Impedance, High Reliability	-55 to +105		●	●	●	●	6.3 to 35	180 to 10000	± 20	160
	HV	04	Extremely Low Impedance, High Reliability	-40 to +105		●	●	●	●	6.3 to 35	47 to 8200	± 20	162
	HD	04	Extremely Low Impedance, High Reliability	-40 to +105		●	●		●	6.3 to 50	22 to 6800	± 20	166
	HC ※	04	Extremely Low Impedance, High Reliability	-40 to +105		●	●		●	6.3 to 35	4.7 to 1000	± 20	164
	HE	04	Extremely Low Impedance, High Reliability	-40 to +105		●	●	●	●	6.3 to 100	0.47 to 18000	± 20	169
	HM	04	Extremely Low Impedance, High Reliability, For PC motherboard	-40 to +105		●	●		●	6.3 to 16	330 to 12000	± 20	174
	HN	04	Extremely Low Impedance, High Reliability, For PC motherboard	-25 to +105		●	●		●	6.3 to 16	330 to 8200	± 20	175
	HZ	04	Extremely Low Impedance, For PC motherboard	-25 to +105		●	●		●	6.3 to 16	470 to 3300	± 20	176
	PJ	04	Low Impedance, For Switching Power Supplies	-55 (-40, -25) to +105	●		●	●	▲	6.3 to 450	0.47 to 15000	± 20	177
	PS	04	Miniature Sized, Low Impedance, For Switching Power Supplies	-55 (-40, -25) to +105		●	●		▲	6.3 to 450	0.47 to 15000	± 20	184
	TS	04	Miniature Sized, For Switching Power Supplies	-40 to +105		●		●	●	6.3 to 50	0.1 to 470	± 20	186
	PV	04	Miniature Sized, Low Impedance, High Reliability	-55 to +105			●	●	●	6.3 to 50	0.47 to 390	± 20	188
	PT	04	Miniature Sized, High Ripple Current, Long Life	-25 to +105		●		●		200 to 450	15 to 820	± 20	190
	PZ	04	High voltage, Smaller-Sized	-25 to +105		●				200 to 450	18 to 470	± 20	192
	PB	04	Miniature Sized, High Ripple Current, High Reliability	-40 (-25) to +105		●		●	▲	10 to 450	0.47 to 3300	± 20	194
	CA	04	Miniature Sized, High Ripple Current, Long Life	-25 to +105		●		●		160 to 450	6.8 to 220	± 20	196
	CS	04	Miniature Sized, High Ripple Current, High Reliability	-40 (-25) to +105		●		●		160 to 450	6.8 to 330	± 20	198
	CY	04	Miniature Sized, High Ripple Current, High Reliability	-40 to +105		●		●		160 to 400	6.8 to 560	± 20	200
	PX	04	Long Life Assurance, High Reliability	-55 to +105			●	●	●	10 to 35	1 to 4700	± 20	202
	BT	04	High Temperature Range, For Industrial equipment (125°C)	-40 (-25) to +125				●	▲	10 to 450	1 to 4700	± 20	204
BW	04	High Temperature Range, For Industrial equipment (135°C)	-55 to +135				●	●	10 to 100	1 to 4700	± 20	206	
BX	04	High Temperature Range, For Automobile equipment (150°C)	-55 (-40, -25) to +150				●	●	10 to 400	1 to 4700	± 20	208	

※ Products which are scheduled to be discontinued.
Not recommended for new designs

Above description is a feature against AK-225AES.
▲ : Applicable up to 100V ratings or less.

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					Standard type	Smaller-sized & low profile	Low impedance	Long life	Anti-cleaning solvent				
Special equipment	KL	04	Low Leakage Current	-40 to +85	●				●	6.3 to 100	0.1 to 10000	±20, ±10	210
	TM	04	Timer Circuit Use	-40 to +85	●				●	10 to 50	1 to 470	±20, ±10	212
	JB	04	Memory Back-Up Use	-25 to +85	●				●	5.5	2.2mF to 47mF	-10 to +50	213
	AQ	04	For Permissible Abnormal Voltage	-40 to +105						200 · 400	10 to 220	±20	214
	AS	04	Miniature Type, For Permissible Abnormal Voltage	-40 to +105		●				200	33 to 330	±20	215
For audio equipment	KZ	04	Premium Grade Type, For Audio Equipment	-40 to +85					●	25 to 100	10 to 1000	±20	216
	FG	04	High Grade Type, For Audio Equipment	-40 to +85	●				●	6.3 to 100	0.1 to 10000	±20	218
	KW	04	Standard, For Audio Equipment	-40 to +85	●				●	6.3 to 100	0.1 to 33000	±20	217
	FW	04	Standard, For Audio Equipment	-40 to +85		●			●	6.3 to 100	0.1 to 33000	±20	220
	SW	04	7mmL, For Audio Equipment	-40 to +85	●				●	6.3 to 50	0.1 to 220	±20	222
	MW	04	5mmL, For General Audio Equipment	-40 to +85	●				●	4 to 50	0.1 to 470	±20	223
	UQ	32	105°C Chip Type, For Audio Equipment	-40 to +105					●	6.3 to 50	0.1 to 1000	±20	224
	ES	04	Bi-Polarized, For Audio Equipment	-40 to +85	●				●	6.3 to 50	0.47 to 1000	±20	226
	DB, GB	04	Bi-Polarized, For Speaker Network	-40 to +85	●				●	50	1 to 68	±20, ±10	227
	KT	04	105°C Standard, For Audio Equipment	-55 to +105	●				●	6.3 to 50	0.1 to 33000	±20	228

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