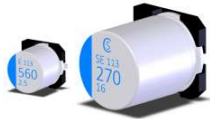


SERIES TABLE



CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



◆ SURFACE MOUNT TYPE

Series	Page	Features	Voltage Range (Vdc)	Capacitance Range (μF)	Operating Temperature Range (°C)	Endurance (Hours)	
SMD	VSG	22	Low ESR and high voltage	2.5 to 63	22 to 2,700	-55 to 105°C	2,000
	VSP	24	Super low ESR	2.5 to 25	47 to 2,700	-55 to 105°C	2,000
	VSU	26	Ultra low ESR	2.5 to 6.3	330 to 390	-55 to 105°C	2,000
	VSD	28	Super low ESR and high voltage	25 to 63	22 to 560	-40 to 105°C	2,000
	VSE	30	Low ESR, long life 5,000 hours	2.5 to 35	47 to 560	-55 to 105°C	5,000
	VSH	32	Higher heat resistance 125°C	2.5 to 35	22 to 560	-55 to 125°C	2,000



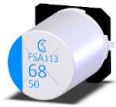
◆ RADIAL LEAD TYPE

Series	Page	Features	Voltage Range (Vdc)	Capacitance Range (μF)	Operating Temperature Range (°C)	Endurance (Hours)	
DIP	UGP	34	Low ESR at a high frequency ranged	10 to 25	47 to 1,500	-55 to 105°C	2,000
	UGV	36	High reliability and high voltage 20 to 100V	20 to 100	18 to 820	-55 to 105°C	2,000
	UGS	38	Low ESR and large capacitance	10 to 35	330 to 3,000	-55 to 105°C	2,000
	UGT	40	Low ESR, endurance 105°C 3,000 hours	6.3 to 63	22 to 1,500	-55 to 105°C	3,000
	URP	42	Low ESR 10 to 12 mΩ	2.5 to 16	100 to 2,700	-55 to 105°C	2,000
	URH	44	Higher heat resistance 125°C, high reliability	2.5 to 25	82 to 2,200	-55 to 125°C	2,000
	UPS	46	Super low ESR and large capacitance	2.5 to 16	150 to 2,000	-55 to 105°C	2,000
	UPR	48	Super low ESR and small size	2.5 to 16	100 to 1,000	-55 to 105°C	2,000
	UUL	50	Small size, low profile and low ESR	2.5 to 16	100 to 680	-55 to 105°C	2,000
	UPC	52	Super low ESR and high ripple current	6.3 to 22	150 to 1,200	-55 to 105°C	2,000
	UPD	54	Super low ESR and large capacitance in high voltage	25 to 63	82 to 820	-40 to 105°C	2,000
UPE	56	Super low ESR, endurance 105°C 5,000 hours	2.5 to 50	22 to 1,500	-55 to 105°C	5,000	

SERIES TABLE



CONDUCTIVE POLYMER HYBRID ALUMINUM SOLID CAPACITORS



◆ SURFACE MOUNT TYPE

Series		Page	Features	Voltage Range (Vdc)	Capacitance Range (μF)	Operating Temperature Range (°C)	Endurance (Hours)
SMD	FSA	64	Low ESR and high voltage	35 to 80	33 to 270	-55 to 125°C	4,000



◆ RADIAL LEAD TYPE

Series		Page	Features	Voltage Range (Vdc)	Capacitance Range (μF)	Operating Temperature Range (°C)	Endurance (Hours)
DIP	BRA	66	Low ESR and high voltage	35 to 80	33 to 270	-55 to 125°C	4,000

ALUMINUM ELECTROLYTIC CAPACITORS



◆ SURFACE MOUNT TYPE

Series		Page	Features	Voltage Range (Vdc)	Capacitance Range (μF)	Operating Temperature Range (°C)	Endurance (Hours)
SMD	CTB	77	105°C standard	4 to 100	0.1 to 6,800	-55 to 105°C	1,000 to 2,000
	CTC	81	105°C long life	6.3 to 100	0.1 to 3,300	-55 to 105°C	2,000 to 5,000
	CTF	84	105°C high voltage, long life	160 to 450	2.2 to 47	-40 to 105°C	3,000 to 5,000
	CES	86	105°C low impedance	6.3 to 50	1 to 3,300	-55 to 105°C	1,000 to 2,000
	CED	89	105°C extra low impedance	6.3 to 50	4.7 to 3,300	-55 to 105°C	2,000 to 3,000
	CEE	92	105°C extra low impedance, long life	50 to 100	3.3 to 470	-55 to 105°C	2,000 to 5,000
	CHJ	94	125°C high temperature, long life	10 to 450	3.3 to 1,000	-40 to 125°C	1,000 to 5,000
	CSN	96	105°C bi-polar	6.3 to 50	0.1 to 100	-40 to 105°C	1,000

SERIES TABLE



ALUMINUM ELECTROLYTIC CAPACITORS



◆ RADIAL LEAD TYPE

Series	Page	Features	Voltage Range (Vdc)	Capacitance Range (μF)	Sleeve Color	Temperature Endurance (Hours)	
Mini Size	SS	99	7mm height	6.3 to 63	0.1 to 330	Dark Blue	85°C 1,000
	SS-H	99	7mm height, high temperature	6.3 to 63	0.1 to 330	Black	105°C 1,000
	SB	102	5mm height	4 to 50	0.1 to 470	Dark Blue	85°C 1,000
	SB-H	102	5mm height, high temperature	4 to 50	0.1 to 470	Black	105°C 1,000
	SF	105	7mm height	6.3 to 63	0.1 to 220	Black	105°C 2,000
	ER	107	Low impedance, miniature size with 7 to 9 mm height	6.3 to 35	33 to 470	Brown	105°C 3,000
	EH	109	Low impedance, high ripple current, 9 mm height	10 to 35	150 to 820	Brown	105°C 3,000 to 4,000
	EC	111	Miniaturized, low ESR and low impedance	10 to 100	68 to 1,800	Brown	105°C 5,000
Standard	ND	113	Non-polar standard	6.3 to 250	0.47 to 2,200	Dark Blue	85°C 2,000
	ND-H	113	Non-polar high temperature	6.3 to 250	0.47 to 2,200	Black	105°C 1,000
	LB	118	Low leakage current	6.3 to 100	0.47 to 4,700	Dark Blue	85°C 2,000
	LB-H	118	Low leakage current, high temperature	6.3 to 100	0.47 to 4,700	Black	105°C 1,000
	SM	123	General, downsize	6.3 to 550	0.1 to 22,000	Dark Blue	85°C 2,000
High frequency, low impedance	EL	127	Extremely low impedance, downsize	6.3 to 50	56 to 6,800	Brown	105°C 2,000
	EB	129	Extremely low impedance, high ripple current	6.3 to 16	82 to 3,300	Brown	105°C 1,000 to 2,000
	EK	131	Miniaturized, low impedance, high ripple current	6.3 to 50	0.1 to 6,800	Brown	105°C 2,000 to 5,000
	EG	134	Low impedance, high ripple current, long life	6.3 to 63	10 to 10,000	Brown	105°C 3,000 to 7,000
	EDJ	137	Low impedance, high ripple current, long life	6.3 to 120	8.2 to 8200	Brown	105°C 6,000 to 10,000
	EY	141	Miniaturized, low impedance, high ripple current	6.3 to 100	6.8 to 18,000	Brown	105°C 4,000 to 10,000
	RF	144	Low impedance, downsize, long life	6.3 to 100	6.8 to 18,000	Brown	105°C 6,000 to 12,000
High reliability	TW	148	High temperature 125°C, high reliability	10 to 450	4.7 to 1,000	Black	125°C 2,000
	TV	150	High temperature 125°C, long life	10 to 50	22 to 1,000	Black	125°C 3,000 to 5,000
	TD	152	High temperature 130°C, high reliability	10 to 450	4.7 to 4,700	Black	130°C 1,000 to 4,000
	TX	155	High temperature 135°C, high reliability	10 to 50	22 to 1,000	Black	135°C 1,000 to 2,000

SERIES TABLE



ALUMINUM ELECTROLYTIC CAPACITORS

◆ RADIAL LEAD TYPE

Series	Page	Features	Voltage Range (Vdc)	Capacitance Range (µF)	Sleeve Color	Temperature Endurance (Hours)	
Power supply with the product	PW	157	High ripple current, downsize	6.3 to 600	0.47 to 22,000	Black	105°C 2,000
	PV	161	Downsize with high ripple current	160 to 500	33 to 560	Black	105°C 2,000 to 5,000
	PJ	163	Downsize, high ripple current, long life	160 to 500	10 to 560	Black	105°C 10,000 to 12,000
	PJL	165	Downsize, high ripple current, long life	160 to 450	6.8 to 470	Black	105°C 12,000 to 15,000
	MW	169	Low ESR, high ripple current	160 to 450	33 to 560	Black	105°C 2,000
	MV	171	Low ESR, high ripple current, long life	160 to 450	33 to 560	Black	105°C 5,000
	MJ	173	Low ESR, downsize, high ripple current, long life	160 to 450	10 to 560	Black	105°C 8,000 to 10,000
	MZ	175	Low ESR, high ripple current, ultra miniature size	200 to 450	18 to 270	Black	105°C 2,000
	MA	177	Low ESR, long life, ultra miniature size	400 to 450	27 to 120	Black	105°C 5,000
	MQ	179	Low ESR, high ripple current, long life, ultra miniature size	160 to 450	27 to 390	Black	105°C 10,000
Counter plan product for safety Capacitor For Over Voltage Application	SW	181	High ripple current, miniaturized	160 to 450	22 to 680	Black	105°C 2,000
	SQ	183	High ripple current, long life 5,000 hours	160 to 450	22 to 680	Black	105°C 5,000
	SJ	185	High ripple current, long life 10,000 hours	160 to 450	22 to 680	Black	105°C 10,000
	VW	187	High ripple current, miniaturized	160 to 450	22 to 680	Black	105°C 2,000
	VQ	189	High ripple current, long life 5,000 hours	160 to 450	22 to 680	Black	105°C 5,000
	VJ	191	High ripple current, long life 10,000 hours	160 to 450	22 to 680	Black	105°C 10,000

SERIES TABLE



ALUMINUM ELECTROLYTIC CAPACITORS



◆ SNAP-IN TYPE

Series	Page	Features	Voltage Range (Vdc)	Capacitance Range (μF)	Sleeve Color	Temperature Endurance (Hours)	
General Purpose	GM	194	General, standard	16 to 550	47 to 68,000	Dark Blue	85°C 2,000
	GV	199	High ripple current, long life	200 to 500	56 to 2,200	Dark Blue	85°C 5,000
	PL	202	General, high temperature, long life	16 to 550	39 to 47,000	Black	105°C 2,000
	PK	207	High temperature, long life	200 to 500	56 to 2,200	Black	105°C 3,000
	PG	210	Smaller size with higher ripple current	200 to 500	56 to 1,800	Black	105°C 5,000
Server product	PO	213	Snap-in terminal, more downsized	400 to 450	68 to 680	Black	105°C 2,000
	PI	215	Snap-in terminal, downsized	400 to 450	56 to 680	Black	105°C 3,000
High reliability	TWH	217	Standard, high temperature	400 to 450	82 to 820	Black	125°C 2,000
	TG	219	The double waist products, long life	10 to 100	680 to 47,000	Black	125°C 5,000
Horizontal	GD	222	General, standard, horizontal mounting	160 to 450	82 to 1,200	Dark Blue	85°C 2,000
	PX	224	High temperature, horizontal mounting	160 to 450	68 to 1,500	Black	105°C 2,000



◆ SPECIAL TYPE

Series	Page	Features	Type	Voltage Range (Vdc)	Capacitance Range (μF)	Sleeve Color	Temperature Endurance (Hours)	
Frequency conversion	AQ	227	For power supply and air conditioner	HU	400 to 450	330 to 820	Dark Blue	85°C 3,000
	AN	229	For power supply and air conditioner	AC	400 to 450	800 to 3,300	Black	85°C 3,000
Screw General Purpose	SC	231	Standard	Screw	200 to 600	820 to 33,000	Black	85°C 2,000
	SA	234	Long life	Screw	160 to 450	1,000 to 68,000	Black	85°C 5,000
	SL	237	High ripple current, long life	Screw	200 to 450	1,000 to 39,000	Black	85°C 20,000
	SK	240	High temperature, long life	Screw	200 to 400	1,000 to 39,000	Black	105°C 2,000
	SX	243	High temperature, long life	Screw	200 to 450	1,000 to 39,000	Black	105°C 5,000