

PRODUCT LIST



CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

◆PZ-CAP

	SERIES	PAGE	FEATURES	GENERAL PURPOSE	HIGH VOLTAGE	HIGH TEMP	LOW ESR	LONG LIFE	RoHS COMPLIANCE	RATED VOLTAGE (Vdc)	CAPACITANCE (μF)	CATEGORY TEMPERATURE RANGE(°C)
V Chip Type	PAV		105°C 3000 hours	●	●		●		●	25~63	22~220	-55~+105
	PCV		125°C 3000 hours			●	●	●	●	25~50	22~150	-55~+125
	NEW PEV		105°C 10000 hours(Hybrid Type)	●	●		●	●	●	25~63	10~330	-55~+105
	NEW PFV		125°C 4000 hours(Hybrid Type)		●	●	●	●	●	25~63	10~330	-55~+125
Lead Wire Type	PZA		105°C 3000 hours	●	●		●		●	25~63	10~220	-55~+105
	PZC		125°C 3000 hours			●	●	●	●	25~50	22~150	-55~+125
	NEW PZE		105°C 10000 hours(Hybrid Type)	●	●		●	●	●	25~63	33~330	-55~+105
	NEW PZF		125°C 4000 hours(Hybrid Type)		●	●	●	●	●	25~63	33~330	-55~+125

◆PC-CON

	SERIES	PAGE	FEATURES	GENERAL PURPOSE	HIGH VOLTAGE	LOW PROFILE	LOW ESR	HIGH CAPACITANCE	RoHS COMPLIANCE	RATED VOLTAGE (Vdc)	CAPACITANCE (μF)	CATEGORY TEMPERATURE RANGE(°C)
Stacking Type	SXB		105°C Standard	●	●				●	2~10	22~220	-55~+105
	SXE		105°C Low ESR				●		●	2~6.3	33~220	-55~+105
	SLE		105°C Low Profile, Low ESR			●	●		●	2~6.3	47~100	-55~+105
	SZE		105°C Low Profile, Ultra Low ESR			●	●		●	2, 2.5	100~150	-55~+105
	UPGRADE SLG		105°C Ultra Low Profile		●	●	●		●	2~10	22~220	-55~+105
	UPGRADE SW		105°C High Capacitance, Low ESR				●	●	●	2~8	68~470	-55~+105
	UPGRADE SWZ		105°C High Capacitance, Ultra Low ESR		●	●	●	●	●	2~10	47~470	-55~+105
	NEW MAT-C		105°C Multi Voltage Capacitor			●	●	●	●	6.3V Max.	47~220	-55~+105



ALUMINUM ELECTROLYTIC CAPACITORS

◆MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

	SERIES	PAGE	FEATURES	GENERAL PURPOSE	MINIATURIZED	HIGH TEMP	LOW IMPEDANCE	LONG LIFE	RoHS COMPLIANCE	RATED VOLTAGE (Vdc)	CAPACITANCE (μF)	CATEGORY TEMPERATURE RANGE(°C)
V Chip Type	SEV		85°C Standard	●					●	4~100	0.47~10000	-40~+85
	SKV		105°C Standard(1000 hours)	●					●	6.3~50	0.47~1000	-55~+105
	SGV		105°C Standard(2000~5000 hours)	●					●	6.3~50 63, 100 400	0.47~6800	-55~+105 -40~+105 -25~+105
	JGV		105°C Standard, High Temperature Reflow	●					●	6.3~50	0.47~1000	-55~+105
	SZV	※	105°C Low Impedance		●		●		●	6.3~35	1~100	-55~+105
	TZV		105°C Low Impedance		●		●		●	6.3~50	4.7~1000	-55~+105
	JZV		105°C Low Impedance, High Temperature Reflow		●		●		●	6.3~35	4.7~1000	-55~+105
	TKV		105°C Low ESR		●		●		●	6.3~35	33~1800	-55~+105
	TPV		105°C Low ESR, Miniaturized		●		●		●	6.3~35	330~2200	-55~+105
	TLV		105°C 5000 hours, Low Impedance		●		●	●	●	6.3~35	100~10000	-55~+105
	NEW TRV		105°C 5000~10000 hours, Low Impedance		●		●	●	●	6.3~50	10~8200	-40~+105
	TXV		125°C Low ESR(2000 hours)		●	●	●	●	●	10~35	22~470	-40~+125
	THV		125°C Low ESR(3000 hours)		●	●	●	●	●	16~50	22~330	-40~+125
	TGV		125°C ESR Standard after endurance test		●	●	●	●	●	16~35	100~3300	-40~+125
	SJV		105°C 3000 hours		●			●	●	6.3~50	0.47~220	-40~+105
	SLV		105°C 5000 hours		●			●	●	6.3~50	0.47~100	-40~+105
	HRV	※	125°C 3000 hours, for Automotive		●	●	●	●	●	25~50	820~3600	-40~+125
	NEW HGV	※	135°C 3000 hours, for Automotive		●	●	●	●	●	25, 35	1200~5600	-40~+135

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◆MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

	SERIES	PAGE	FEATURES	GENERAL PURPOSE	MINIATURIZED	LOW PROFILE	HIGH RIPPLE	LONG LIFE	RoHS COMPLIANCE	RATED VOLTAGE (Vdc)	CAPACITANCE (μF)	CATEGORY TEMPERATURE RANGE(°C)
General Purpose	PK		85°C Standard	●	●				●	6.3~400 450	0.47~33000	-40~+85 -25~+85
	PX		105°C Standard	●	●				●	6.3~100 160~400 450	0.47~33000	-55~+105 -40~+105 -25~+105
Low Impedance	YXF		105°C Long Life, Low Impedance	●	●		●	●	●	6.3~100	1~15000	-40~+105
	YXG		105°C High Ripple Current, Long Life		●		●	●	●	6.3~100	6.8~18000	-40~+105
	YXH		105°C High Ripple Current, Long Life		●		●	●	●	6.3~100	6.8~18000	-40~+105
	YXJ		105°C Miniaturized, Long Life, Low Impedance	●	●		●	●	●	6.3~100	1~15000	-40~+105
	ZL		105°C High Ripple Current, Low Impedance		●		●		●	6.3~100	5.6~6800	-40~+105
	ZLH		105°C Miniaturized, Long Life, Low Impedance		●		●	●	●	6.3~100	8.2~8200	-40~+105
	ZLS		105°C Miniaturized, Low Impedance		●		●	●	●	10~35	220~5600	-40~+105
	NEW ZLQ		105°C Ultra Miniaturized, Low Impedance		●		●	●	●	6.3~35	56~12000	-40~+105
	ZLG		105°C Ultra Low Impedance				●		●	6.3~35	4.7~3900	-40~+105
	ZLJ		105°C High Ripple Current, Long Life		●		●	●	●	6.3~100	8.2~8200	-40~+105
	ZLK		105°C Ultra High Ripple Current, Low Impedance		●		●		●	10~35	220~1800	-40~+105
	ZT		125°C Low Impedance				●	●	●	10~35	22~2200	-40~+125
	NEW JXF		105°C Low Impedance, Wide Temperature Range		●		●	●	●	16~35	470~10000	-55~+105
Long Life	CFX		105°C 5000 hours	●	●			●	●	160~450	2.2~100	-25~+105
	BXC		105°C 8000~12000 hours		●			●	●	160~500	1~220	-25~+105
	BXF		105°C High Ripple Current, Long Life, 20mm Max		●	●		●	●	160~450	10~220	-25~+105
	LLE		105°C 12000~20000 hours		●			●	●	160~400 450	1~68	-40~+105 -25~+105
	LEX		125°C 4000~5000 hours		●			●	●	160~400	1~33	-40~+125
	YXM		105°C 10000 hours, Miniaturized		●			●	●	10~100	1~330	-40~+105
High Temperature	RX30		130°C 1000~4000 hours					●	●	10~100 200~400	1~4700	-40~+130 -25~+130
	RX50		150°C 1000 hours					●	●	10~63	47~1000	-40~+150
	UPGRADE HRX		125°C 3000 hours, for Automotive		●		●	●	●	25~70	240~5100	-40~+125
	HLX	※	125°C 3000 hours, Low ESR, for Automotive		●		●	●	●	25, 35	820~3600	-40~+125
	HGX		135°C 3000 hours, for Automotive		●		●	●	●	25, 35	1200~5600	-40~+135
	HBX		125°C 3000 hours, for Automotive		●		●	●	●	250	30~56	-40~+125
Miniaturized	UPGRADE AX		105°C Ultra Miniaturized		●	●	●		●	6.3~35 400	4.7~1200	-40~+105
Low Profile	ML		105°C 5mm~9mm Height, Long Life		●	●		●	●	6.3~50	1~1000	-40~+105
	WA		85°C 9mm~25mm Height		●	●			●	6.3~250 350~450	1.5~10000	-40~+85 -25~+85
	WXA		105°C 9mm~25mm Height		●	●			●	6.3~50 160~250 350~450	1.5~10000	-55~+105 -40~+105 -25~+105
	MS7		85°C 7mm Height	●	●	●			●	4~63	1~470	-40~+85
	MS5		85°C 5mm Height	●	●	●			●	4~50	0.47~470	-40~+85
	MH7		105°C 7mm Height	●	●	●			●	6.3~50	1~100	-40~+105
	MH5		105°C 5mm Height	●	●	●			●	6.3~50	0.47~100	-40~+105
Low Leakage Current	TWL		85°C Low Leakage Current		●				●	6.3~50	1~2200	-40~+85
Bi-Polar	NA		85°C Standard	●	●				●	6.3~100	1~1000	-40~+85
	NXA		105°C Standard	●	●				●	6.3~50	1~1000	-55~+105
	NW7		85°C 7mm Height	●	●	●			●	6.3~50	0.33~47	-40~+85
	NW5		85°C 5mm Height	●	●	●			●	6.3~50	0.33~47	-40~+85
For Switching Power Supply	KXW		105°C 2000 hours, Miniaturized	●			●		●	200~450	18~560	-25~+105
	UPGRADE QXW		105°C 2000 hours, Ultra Miniaturized		●		●		●	400~450	12~220	-40~+105
	UPGRADE CXW		105°C 5000 hours, Ultra Miniaturized		●		●	●	●	400~500	10~220	-40~+105
	TXW		105°C 7000~12000 hours, Miniaturized		●		●	●	●	35~450	12~1800	-40~+105
	BXW		105°C 10000~12000 hours, Ultra Miniaturized		●		●	●	●	160~450	10~820	-40~+105
	UPGRADE SAW		105°C Over-Voltage Venting Specification, Miniaturized		●		●		●	200~450	18~270	-25~+105
	SXW		105°C Over-Voltage Venting Specification				●		●	200, 400	4.7~330	-25~+105
	ULW		85°C 8000 hours				●		●	450~500	47~150	-25~+85

※Please contact our sales offices.

◆LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

	SERIES	PAGE	FEATURES	GENERAL PURPOSE	MINIATURIZED	HIGH RIPPLE	FOR OVERVOLTAGE TEST	LONG LIFE	RoHS COMPLIANCE	RATED VOLTAGE (Vdc)	CAPACITANCE (μF)	CATEGORY TEMPERATURE RANGE(°C)
Snap-in type	USC		85°C Standard	●					●	10~250 315~450	180~82000 56~1000	-40~+85 -25~+85
	UPGRADE USG		85°C Standard	●		●			●	10~250 400~450	220~82000 68~820	-40~+85 -25~+85
	UPGRADE USH		85°C Miniaturized	●	●	●			●	400~450	120~1200	-25~+85
	NEW USK		85°C Ultra Miniaturized	●	●	●			●	400~450	120~1200	-25~+85
	NEW UFG		85°C 4-pin Terminal Type		●	●			●	350~450	470~2700	-25~+85
	MXC		105°C Standard	●					●	10~250 315~450	220~68000 47~820	-40~+105 -25~+105
	UPGRADE MXG		105°C Standard	●		●			●	10~250 315~500	220~68000 39~1500	-40~+105 -25~+105
	UPGRADE MXH		105°C Miniaturized	●	●	●			●	400~500	56~1200	-25~+105
	UPGRADE MXK		105°C Ultra Miniaturized	●	●	●			●	400~450	120~1200	-25~+105
	HXG		105°C High Ripple Current, Miniaturized		●	●			●	400~450	56~680	-25~+105
	FXC		105°C Flame Retardant, Over-Voltage Venting Specification				●		●	400~450	※	-25~+105
	UPGRADE VXG		105°C 5000 hours			●		●	●	10~100 200~500	560~56000 47~2200	-40~+105 -25~+105
	UPGRADE VXH		105°C 5000 hours, Miniaturized		●	●		●	●	200~450	100~2700	-25~+105
	NEW V XK		105°C 5000 hours, Ultra Miniaturized		●	●		●	●	400~450	120~1200	-25~+105
	VXR		105°C 7000 hours			●		●	●	160~450	39~2200	-25~+105
	NXG		105°C 10000 hours					●	●	400~450	120~560	-25~+105
	UPGRADE VXS		105°C Charge-Discharge Specification					●	●	315~450	82~1200	-25~+105
	KXF		105°C 20mm Height						●	10~100 160~450	330~10000 39~820	-40~+105 -25~+105
	NEW HFG		105°C 4-pin Terminal Type		●	●			●	350~450	390~2700	-25~+105
	SXC		105°C Over-Voltage Venting Specification				●		●	200, 400	27~1500	-25~+105
	SXG		105°C Over-Voltage Venting Specification, Miniaturized		●		●		●	200, 400, 450	39~1200	-25~+105
Screw terminal type	LSQ		85°C 3000 hours	●					●	10~100 160~450	2200~680000 270~33000	-40~+85 -25~+85
	UPGRADE LSU		85°C 5000 hours	●				●	●	350~580	1200~18000	-25~+85
	LSY		85°C 5000 hours, Miniaturized		●			●	●	350~500	1500~22000	-25~+85
	LSA		85°C 20000 hours, High Ripple Current			●		●	●	350~450	1800~15000	-25~+85
	LSW		105°C 3000 hours	●					●	10~100 160~400	2200~680000 220~22000	-40~+105 -25~+105
	LSG		105°C 5000 hours	●				●	●	350~450	1000~18000	-25~+105
	LSH		105°C 5000 hours, Miniaturized		●			●	●	350~450	1500~22000	-25~+105
	LSC		105°C 5000 hours, High Ripple Current			●		●	●	350~450	1800~15000	-25~+105

◆PHOTO FLASH ALUMINUM ELECTROLYTIC CAPACITORS

SERIES	PAGE	FEATURES	RoHS COMPLIANCE	RATED VOLTAGE (Vdc)	CAPACITANCE (μF)	CATEGORY TEMPERATURE RANGE (°C)
FK		Standard Lug Terminal	●	330 360	150~1500 150~1300	-20~+55
FKX		Miniaturized Lug Terminal	●	330	150~1500	-20~+55
SF		High Voltage Lug Terminal	●	450	150~1000	-20~+55
FW		Lead Wire Terminal	●	330	10~300	-20~+60
CDF		For Rapid Strobe Flash	●	360 450	60~400 40~300	-25~+70

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 FILM CAPACITORS							
	SERIES	PAGE	FEATURES	RoHS COMPLIANCE	RATED VOLTAGE (V)	CAPACITANCE (μF)	CATEGORY TEMPERATURE RANGE(°C)
Metallized Polypropylene Film Capacitors	MPB		Standard	●	DC250~630	0.01~4.7	-40~+105
	UPGRADE MPK		Miniaturized	●	DC450~800	0.1~4.7	-40~+105 ※※(+85)
	MPN		Ultra Miniaturized	●	DC450, 630	0.1~3.3	-40~+85
	UPGRADE MPH		Low D.F., Low ESR	●	DC100~800	0.047~22	-40~+105
	UPGRADE MPE		High Voltage	●	DC800~1600 (AC250~700)	0.001~0.56	-40~+105
	UPGRADE MPKA		Across-the-line, Miniaturized	●	AC125, 275	0.01~1	-40~+85
	PCK		High Ripple Current, Low Buzz	●	DC450~2000	0.01~33	-40~+105 ※※(+85)
Metallized Polyester Film Capacitors	MMB		Standard	●	DC100~630	0.01~10	-40~+105 ※※(+85)
	MMG		Miniaturized	●	DC250~630	0.056~10	-40~+105 ※※(+85)
	MMK		High Ripple Current	●	DC100~630	0.18~22	-40~+105 ※※(+85)
	MMBA		Across-the-line	●	AC125, 250	0.01~1	-40~+85
Polyester Film Capacitors	F2D		Miniaturized	●	DC50~200	0.00047~0.47	-40~+105 ※※(+85)
Polypropylene Film Capacitors	P2S		Low D.F.	●	DC100, 250	0.00022~0.1	-20~+85 ※※(+70)
PPS Film Capacitors	H2D		Heat-resisting	●	DC50, 100	0.00047~0.47	-55~+125
CR-Surge Absorber	MCRA-DP		CR-Network	●	AC125, 250	C:0.033, 0.1 R:47, 120Ω	-25~+85
Power Film Capacitors	MPC		Low ESR, High Ripple Current	●	DC630, 1200	0.1~10	-40~+85
	MPCA		For AC line	●	AC220~480	1~110	-25~+70
	UPGRADE HVC		Low ESL	●	DC450	500	-40~+105
	MPX		Stud Mount Type	●	DC1100	220~1500	-20~+70
	MPXA		Stud Mount Type (AC line)	●	AC220~480	15~200	-20~+70

 “PMLCAP”[®] POLYMER MULTI-LAYER CAPACITORS							
	SERIES	PAGE	FEATURES	RoHS COMPLIANCE	RATED VOLTAGE (Vdc)	CAPACITANCE (μF)	CATEGORY TEMPERATURE RANGE(°C)
Stacking Type	MU		Standard (Reflow/Flow)	●	16~100	0.0001~22	-55~+125
	NEW MR		LW reversal structure, Low ESL (Reflow/Flow)	●	16~100	0.01~6.8	-55~+125
	ST		Standard (Reflow)	●	16~100	0.001~22	-55~+125
Lead Wire Type	LDT		Standard	●	10~35	4.7~47	-55~+105

 ELECTRIC DOUBLE LAYER CAPACITORS							
	SERIES	PAGE	FEATURES	RoHS COMPLIANCE	RATED VOLTAGE (Vdc)	CAPACITANCE (F)	CATEGORY TEMPERATURE RANGE(°C)
Lead Wire Type	DMA		Standard	●	2.5	50~190	-25~+60
	DMB		70°C	●	2.5	2.2~150	-25~+70
	DMC		2.7, 3V	●	2.7, 3	1~10	-25~+70 (+60)
	DMG		Low Resistance	●	2.5	1~30	-25~+70
	NEW DMH		85°C	●	2.3	2~10	-25~+85
Screw Terminal Type	DSA		Low Resistance	●	2.5	850, 1900	-25~+60
	DSB		High Capacitance	●	2.5	1000, 2300	-25~+60

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※※Derate the voltage as shown in the figures at "CAUTION FOR PROPER USE OF FILM CAPACITOR" when using the capacitor beyond the rated temperature ().