

## ■ CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

Series		Features	Standard Type	Miniaturization Low profile type	Low Z	Long life	High temperature	AEC-Q200	Terminal type	Endurance (+R=With ripple)	Rated voltage range (V <sub>dc</sub> )
Resin-Molded Surface Mount Type	PMA	Super low ESR, low profile		●	●				—	105°C 5,000 hours	16 to 25
	PXN	Super low ESR, high ripple current, high moisture resistance		●	●	●		●	SMD	105°C 5,000 hours	2.5 to 16
Surface Mount Type	PXT	Super low ESR, high ripple current, high moisture resistance		●	●	●			SMD	105°C 15,000 hours	2.5 to 16
	PXJ	Super low ESR, high ripple current, downsized		●	●	●			SMD	105°C 15,000 hours	2.5 to 25
	PXG	Super low ESR, high ripple current, downsized	●	●	●	●			SMD	105°C 3,000 to 15,000 hours	16 to 25
	PXK	Super low ESR, high ripple current, downsized	●	●	●	●			SMD	105°C 3,000 to 15,000 hours	2.5 to 16
	PXS	Super low ESR, high ripple current		●	●	●			SMD	105°C 20,000 hours	4 to 16
	PXF	Super low ESR, high ripple current	●	●	●	●			SMD	105°C 3,000 to 15,000 hours	2 to 10
	PXE	Super low ESR, high ripple current		●	●	●			SMD	105°C 15,000 hours	2.5 to 16
	PXA	Super low ESR, high ripple current		●	●	●			SMD	105°C 3,000 to 15,000 hours	2.5 to 25
	PXD	125°C, super low ESR, high ripple current		●	●		●	●	SMD	125°C 2,000 hours	2.5 to 10
	PXH	125°C, super low ESR, high ripple current		●	●		●		SMD	125°C 1,000 hours	2.5 to 20
Radial Lead Type	PSJ	Super low ESR, high ripple current, downsized		●	●				Radial	105°C 2,000 to 5,000 hours	2.5
	PSG (Upgrade!)	Super low ESR, high ripple current	●	●	●	●			Radial	105°C 15,000 to 20,000 hours	16 to 35
	PSK	Super low ESR, high ripple current	●	●	●	●			Radial	105°C 20,000 hours	2.5 to 6.3
	PSF	Super low ESR, high ripple current	●	●	●	●			Radial	105°C 20,000 hours	2 to 16
	PSE	Super low ESR, high ripple current		●	●	●			Radial	105°C 20,000 hours	2.5 to 6.3
	PSC	Super low ESR, high ripple current		●	●	●			Radial	105°C 15,000 hours	2.5 to 16
	PSA	Super low ESR, high ripple current (Ask Engineering Bulletin No.721 in detail)		●	●	●			Radial	105°C 15,000 hours	2.5 to 16
	PS	Super low ESR, high ripple current (Ask Engineering Bulletin No.711 in detail)		●	●	●			Radial	105°C 15,000 hours	2.5 to 35

## ■ CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

Series		Features	Standard Type	Miniaturization Low profile type	Low Z	Long life	High temperature	AEC-Q200	Terminal type	Endurance (+R=With ripple)	Rated voltage range (V <sub>dc</sub> )
Surface Mount Type	HXE (New!)	135°C, super low ESR, high ripple current			●	●	●	●	SMD	135°C 2,000 to 4,000 hours +R	16 to 35
	HXC	125°C, super low ESR, high ripple current	●		●	●	●	●	SMD	125°C 4,000 hours +R	16 to 63
	HXD	Super low ESR, high ripple current	●		●				SMD	105°C 5,000 hours +R	16 to 63
	HXA	125°C, super low ESR, high ripple current (Ask Engineering Bulletin No.830 for 16 to 63V)			●	●	●	●	SMD	125°C 4,000 hours +R	80
	HXB	Super low ESR, high ripple current (Ask Engineering Bulletin No.831 for 16 to 63V)			●			●	SMD	105°C 5,000 hours +R	80
Radial Lead Type	HSE	135°C, super low ESR, high ripple current			●	●	●	●	Radial	135°C 4,000 hours +R	25 to 63
	HSC	125°C, super low ESR, high ripple current	●		●	●	●	●	Radial	125°C 10,000 hours +R	25 to 63
	HSD	Super low ESR, high ripple current	●		●			●	Radial	105°C 5,000 hours +R	25 to 63

## ■ ALUMINUM ELECTROLYTIC CAPACITORS

Series		Features	Standard Type	Miniaturization Low profile type	Low Z	Long life	High temperature	AEC-Q200	Terminal type	Endurance (+R=With ripple)	Rated voltage range (V <sub>dc</sub> )	
Surface Mount Type	General Purpose	MVA	85°C, standard	●	●				SMD	85°C 2,000 hours	4 to 450	
		MVE	105°C, standard	●	●			●	SMD	105°C 1,000 to 2,000 hours	6.3 to 450	
	Low Impedance	MZS (New!)	Super low ESR, downsized		●	●				SMD	105°C 2,000 hours	25 & 35
		MZR	Super low ESR, downsized	●	●	●			●	SMD	105°C 2,000 hours	6.3 to 50
		MZJ	Super low ESR		●	●			●	SMD	105°C 2,000 hours	6.3 to 35
		MZA	Super low impedance, Case size 4 to 18mm	●	●	●			●	SMD	105°C 2,000 to 5,000 hours	6.3 to 100
		MVY	Low impedance, standard, Case size 4 to 18mm			●			●	SMD	105°C 1,000 to 5,000 hours	6.3 to 100
		MZF	10,000 hours, Long life, low impedance			●	●			SMD	105°C 10,000 hours	6.3 to 50
		MZE	7,000/8,000 hours, Long life, low impedance			●	●			SMD	105°C 7,000 to 8,000 hours	6.3 to 50
		MZK	5,000 hours, Long life, low impedance		●	●	●			SMD	105°C 5,000 hours	6.3 to 35
	Long Life	MLA	3,000 hours, Long life, low impedance			●	●			SMD	105°C 3,000 hours	6.3 to 50
		MLF	10,000 hours, Long life				●			SMD	105°C 10,000 hours	6.3 to 50
		MLE	7,000/8,000 hours, Long life				●			SMD	105°C 7,000 to 8,000 hours	6.3 to 50
		MLK	5,000 hours, Long life		●					SMD	105°C 5,000 hours	6.3 to 35
		MVL	3,000/5,000 hours, Long life				●			SMD	105°C 3,000 to 5,000 hours	6.3 to 50
	MVJ	2,000 hours, Long life					●		SMD	105°C 2,000 hours	6.3 to 50	
	Special Application	MHS (Upgrade!)	125°C, High temperature reflow soldering(3times)		●	●	●	●	●	SMD	125°C 5,000 hours	16 to 100
		MVH	125°C, Case size 6.3 to 18mm			●	●	●	●	SMD	125°C 1,000 to 5,000 hours	10 to 450
		MHL	125°C, Downsized			●	●	●	●	SMD	125°C 2,000 to 4,000 hours	10 to 35
		MHB	125°C, Specified ESR after endurance Case size 8 to 18mm	●			●	●	●	SMD	125°C 1,500 to 3,000 hours	10 to 100
		MHJ	125°C, Specified ESR after endurance			●		●	●	SMD	125°C 2,000 to 3,000 hours	10 to 35
		MHK (Upgrade!)	125°C, Specified ESR after endurance			●		●	●	SMD	125°C 2,000 hours	35
		MXB (New!)	150°C, Case size 12.5 to 18mm			●	●	●	●	SMD	150°C 1,000 hours	25 & 35
		MKB	Specified ESR at low temperature						●	SMD	105°C 3,000 hours	400
		MV-BP	Bi-polar(Ask Engineering Bulletin No.624 in detail)		●					SMD	85°C 2,000 hours	6.3 to 50
	MVK-BP	Bi-polar(Ask Engineering Bulletin No.624 in detail)		●					SMD	105°C 1,000 hours	6.3 to 50	

● : Recommendation products

AEC-Q200 : AEC-Q200 compliant. Please contact your local Chemi-Con office for more details, test data, information and also non indicated products.

## ALUMINUM ELECTROLYTIC CAPACITORS

Series		Features	Standard Type	Miniaturization Low profile type	Low Z	Long life	High temperature	AEC-Q200	Terminal type	Endurance (+R=With ripple)	Rated voltage range (Vdc)
Radial Lead Type	Low Profile	SRM	85°C, 5mm height, standard	●					Radial	85°C 1,000 hours	4 to 50
		SRE	85°C, 5mm height (Ask Engineering Bulletin No.524 in detail)	●					Radial	85°C 1,000 hours	4 to 50
		KRE	105°C, 5mm height, standard	●					Radial	105°C 1,000 hours	6.3 to 50
		SRA	85°C, 7mm height (Ask Engineering Bulletin No.524 in detail)	●					Radial	85°C 1,000 hours	4 to 63
		KMA	105°C, 7mm height, standard	●					Radial	105°C 1,000 hours	4 to 63
		SRG	φ 4×7 to φ 18×25mm, low profile	●					Radial	85°C 1,000 to 2,000 hours	6.3 to 50
	General Purpose	KRG	φ 4×7 to φ 18×25mm, low profile	●					Radial	105°C 1,000 hours	6.3 to 50
		SMQ	85°C, Downsized	●					Radial	85°C 2,000 hours	6.3 to 450
		KMQ	105°C, Downsized	●					Radial	105°C 1,000 to 2,000 hours +R	6.3 to 450
		SMG	85°C, standard	●					Radial	85°C 2,000 hours	6.3 to 450
		KMG	105°C, standard	●	●				Radial	105°C 1,000 to 2,000 hours +R	6.3 to 450
		SME-BP	Bi-polar, downsized (Ask Engineering Bulletin No.865 in detail)	●					Radial	85°C 2,000 hours	6.3 to 100
	Power Supply Output, Low Impedance	KME-BP	Bi-polar, downsized (Ask Engineering Bulletin No.866 in detail)	●					Radial	105°C 1,000 hours	6.3 to 100
		KZN	Long life, low impedance	●	●	●			Radial	105°C 6,000 to 10,000 hours +R	6.3 to 100
		KZM	Long life, super low impedance	●	●	●			Radial	105°C 6,000 to 10,000 hours +R	6.3 to 50
		KZH	Super low impedance, downsized	●	●	●			Radial	105°C 5,000 to 6,000 hours +R	6.3 to 35
		KZE	Low impedance, downsized	●	●	●			Radial	105°C 1,000 to 5,000 hours +R	6.3 to 100
		KYC	Low ESR, downsized	●	●	●		●	Radial	105°C 3,000 to 5,000 hours +R	16 to 50
		KYB	Low impedance, downsized	●	●	●			Radial	105°C 4,000 to 10,000 hours +R	6.3 to 100
		KYA	Low impedance, downsized	●	●	●			Radial	105°C 4,000 to 10,000 hours +R	6.3 to 100
		KY	Low impedance, standard	●	●	●			Radial	105°C 4,000 to 10,000 hours +R	6.3 to 100
		LZA	Low impedance, downsized	●	●	●		●	Radial	105°C 4,000 to 7,000 hours +R	6.3 to 35
	Power Supply Input	LXZ	Low impedance, downsized	●	●	●		●	Radial	105°C 2,000 to 8,000 hours +R	6.3 to 63
		LXY	Low impedance	●	●	●		●	Radial	105°C 2,000 to 8,000 hours +R	10 to 63
		LXV	Low impedance	●	●	●		●	Radial	105°C 2,000 to 5,000 hours +R	6.3 to 100
		KXL	Long life, downsized, for input filtering	●	●	●		●	Radial	105°C 10,000 to 12,000 hours +R	400 to 450
		KXJ	Long life, downsized, for input filtering	●	●	●		●	Radial	105°C 8,000 to 12,000 hours +R	160 to 500
		KXG	Long life, downsized, for input filtering	●	●	●			Radial	105°C 8,000 to 10,000 hours +R	160 to 450
		KWA	Low profile, long life for input filtering	●	●	●			Radial	105°C 5,000 hours +R	400 to 450
		KHE	Low profile, high ripple for input filtering	●	●	●			Radial	105°C 2,000 hours +R	400 to 450
	Power Supply Output	PAG	Low profile, for input filtering	●	●	●			Radial	105°C 2,000 hours +R	200 to 450
		KLJ	No sparks with DC overvoltage, downsized	●	●	●			Radial	105°C 2,000 hours +R	200 to 450
	High Temperature	KXF	Long life, downsized, for input filtering	●	●	●			Radial	105°C 15,000/20,000 hours +R	160 to 450
		KXE	Long life, downsized, for input filtering	●	●	●			Radial	105°C 10,000 to 12,000 hours +R	160 to 400
		LE	Long life, downsized	●	●	●			Radial	105°C 10,000 hours +R	10 to 100
		FL	Long life, downsized	●	●	●			Radial	105°C 3,000 hours +R	6.3 to 50
GPA		125/150°C, downsized (Guaranteed short time at 150°C)	●	●	●	●	●	Radial	125°C 3,000 to 5,000 hours +R	25 to 100	
GVA		125°C, high vibration resistance	●	●	●	●	●	Radial	125°C 5,000 hours +R	25 to 100	
GXF		125°C, high ripple	●	●	●	●	●	Radial	125°C 3,000 hours +R	25 to 400	
GXE		125°C, low impedance, downsized	●	●	●	●	●	Radial	125°C 2,000 to 5,000 hours +R	10 to 450	
Special Application	GXL	125°C	●	●	●	●	●	Radial	125°C 5,000 hours +R	10 to 50	
	GPD	135/150°C, high ripple (Guaranteed short time at 150°C)	●	●	●	●	●	Radial	135°C 2,000 to 3,000 hours +R	25 to 100	
	GVD	135°C, high vibration resistance	●	●	●	●	●	Radial	135°C 2,000 to 3,000 hours +R	25 to 100	
	GQB <small>(New!)</small>	150°C, high ripple	●	●	●	●	●	Radial	150°C 1,000 hours +R	25 & 35	
Special Application	LBV <small>(New!)</small>	For airbag, downsized	●	●	●		●	Radial	105°C 5,000 hours +R	25 & 35	
	LBK	For airbag, downsized (Ask Engineering Bulletin No.820 in detail)	●	●	●		●	Radial	105°C 5,000 hours +R	25 & 35	
	LBG	For airbag	●	●	●		●	Radial	105°C 5,000 hours +R	25 & 35	
	PH	For photo flash	●	●	●			Radial	55°C 5,000 times charging	300 to 330	

● : Recommendation products

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## ALUMINUM ELECTROLYTIC CAPACITORS

Series		Features	Standard Type	Miniaturization Low profile type	High ripple	Long life	Terminal type	Endurance (+R=With ripple)	Rated voltage range (V <sub>dc</sub> )	
Snap-in Type	General Purpose	SMR	85°C, high ripple, downsized	●	●		Pin	85°C 2,000 hours +R	400 to 450	
		SMQ	85°C, standard	●	●		Pin	85°C 2,000 hours +R	160 to 450	
		KMZ	105°C, super downsized		●		Pin	105°C 2,000 hours +R	420 & 450	
		KMW	105°C, super downsized		●		Pin	105°C 2,000 hours +R	400 to 450	
		KMR	105°C, downsized		●		Pin	105°C 2,000 hours +R	160 to 450	
		KMQ	105°C, standard	●	●		Pin	105°C 2,000 hours +R	35, 50, 160 to 450	
		RLB	85°C, 5,000 hours, high ripple		●	●	Pin	85°C 5,000 hours +R	180 to 250	
		RLA	85°C, high ripple		●	●	Pin	85°C 3,000 hours +R	180 to 250	
		KLA	105°C, high ripple		●	●	Pin	105°C 3,000 hours +R	180 to 250	
		SMM	85°C, 3,000 hours	●	●	●	Pin	85°C 3,000 hours +R	160 to 450	
		KMT	105°C, high ripple		●	●	Pin	105°C 3,000 hours +R	420 & 450	
		KHS	105°C, downsized		●	●	Pin	105°C 3,000 hours +R	450 to 500	
		KMS	105°C, downsized	●	●	●	Pin	105°C 3,000 hours +R	160 to 600	
		KMM	105°C, 3,000 hours		●	●	Pin	105°C 3,000 hours +R	160 to 450	
	SMH	85°C, standard (Ask Engineering Bulletin No.585 for 160 to 450V)				Pin	85°C 2,000 hours +R	6.3 to 100		
	KMH	105°C, standard (Ask Engineering Bulletin No.584 for 160 to 450V)				Pin	105°C 2,000 hours +R	6.3 to 100		
	Low Profile	KLM	15mm height, low profile (Ask Engineering Bulletin No.855 in detail)		●		Pin	105°C 2,000 hours +R	160 to 400	
	High Temperature	TXH	Long life			●	Pin	105°C 10,000 hours +R	200 to 450	
		LXM	Long life, downsized		●	●	Pin	105°C 7,000 hours +R	160 to 450	
		LHS	Long life, downsized		●	●	Pin	105°C 5,000 hours +R	450 to 500	
		LXS	Long life, downsized	●	●	●	Pin	105°C 5,000 hours +R	160 to 600	
		LXQ	Long life, downsized		●	●	Pin	105°C 5,000 hours +R	160 to 450	
	Special Application	LXG	Long life			●	Pin	105°C 5,000 hours +R	10 to 100	
CHA		No sparks with DC overvoltage			●	Pin	105°C 2,000 hours +R	200 to 450		
LXH		No sparks with DC overvoltage (Ask Engineering Bulletin No.856 in detail)		●	●	Pin	105°C 3,000/5,000 hours +R	200 & 400		
Screw-Mount Type	General Purpose	KMV	For charge and discharge application			Pin	105°C 3,000 hours +R	350 to 450		
		SME	85°C, standard (Ask Engineering Bulletin No.548 for 160 to 250V)	●		Screw	85°C 2,000 hours +R	10 to 100		
		KMQ	105°C, downsized		●	Screw	105°C 2,000 hours +R	315 to 450		
	For Inverter	KMH	105°C, standard	●		Screw	105°C 2,000 hours +R	10 to 400		
		RWH	High ripple, downsized		●	●	Screw	85°C 5,000 hours +R	350 to 450	
		RWG	Long life, high ripple, downsized (Ask Engineering Bulletin No.747 in detail)		●	●	Screw	85°C 5,000 hours +R	350 to 450	
		RWF	Long life, high ripple		●	●	Screw	85°C 5,000 hours +R	350 to 450	
		RWR	High ripple, downsized		●	●	Screw	85°C 2,000 hours +R	350 to 450	
		RWQ	High ripple, downsized	●	●	●	Screw	85°C 2,000 hours +R	350 to 550	
		RWE	High ripple	●	●	●	Screw	85°C 2,000 hours +R	350 to 550	
		RWY	Long life, high ripple, low cost (Ask Engineering Bulletin No.661 in detail)			●	●	Screw	85°C 5,000 hours +R	350 to 450
		RWL	Long life, high ripple			●	●	Screw	85°C 20,000 hours +R	350 to 450
		RHB	85°C, high voltage				●	Screw	85°C 2,000 hours +R	575 to 700
		RHA	High voltage, high ripple		●	●	●	Screw	85°C 5,000 hours +R	500 to 650
		FTP	Ovalized can shape, high ripple		●	●	●	Screw	85°C 5,000 hours +R	63 to 450
		LXA	105°C, long life		●		●	Screw	105°C 2,000/5,000 hours +R	10 to 525
LXR	105°C, long life, high ripple			●	●	Screw	105°C 5,000 hours +R	350 to 450		
RWV	For charge and discharge application				●	Screw	85°C 5,000 hours +R	350 to 450		

## ALUMINUM ELECTROLYTIC CAPACITORS (UNITED CHEMI-CON, INC. Products)

Series		Features	Standard Type	Miniaturization Low profile type	High ripple	Long life	Terminal type	Endurance (+R=With ripple)	Rated voltage range (V <sub>dc</sub> )
Screw-Mount Type	For Inverter	U37F	Long life, high ripple		●	●	Screw	85°C 5,000 hours +R	350 to 500
		U37L	Long life, high ripple		●	●	Screw	85°C 10,000 hours +R	350 to 500
		U37X	Long life, high ripple		●	●	Screw	85°C 15,000 hours +R	350 to 500
		UTOR	Toroidal shape, long life, high ripple		●	●	Screw	105°C 5,000 hours +R	350 to 500

## ALUMINUM ELECTROLYTIC CAPACITORS FOR AUDIO

Series		Features	Standard Type	Miniaturization Low profile type	Terminal type	Endurance (+R=With ripple)	Rated voltage range (V <sub>dc</sub> )
For Audio	MAR	<i>MELODIO</i> Surface mount type	●	●	SMD	85°C 2,000 hours	6.3 to 50
	MAK	<i>MELODIO</i> 105°C, Surface mount type			SMD	105°C 1,000 hours	6.3 to 50
	ARI	<i>MELODIO</i> 5mm / 7mm height	●	●	Radial	85°C 1,000 hours	6.3 to 50
	ASG	Standard, downsized		●	Radial	85°C 2,000 hours	6.3 to 100
	AVH	<i>MELODIO</i> Standard		●	Radial	85°C 1,000 hours	6.3 to 100
	AWJ	High grade		●	Radial	85°C 1,000 hours	16 to 100
	SNX-BP	General purpose speaker network		●	Radial	85°C 1,000 hours	63
	AJ	<i>MELODIO</i> For input filtering, snap-in type		●	Pin	85°C 1,000 hours	25 to 125

● : Recommendation products