

UNITED CHEMI-CON Polymer Aluminum Capacitors



RoHS Compliant This product is RoHS compliant.

UCC PXH NPCAP™ 125°C SMD SOLID POLYMER ALUMINUM SERIES

The PXH series are suitable for DC-DC converters, voltage regulators and decoupling applications.

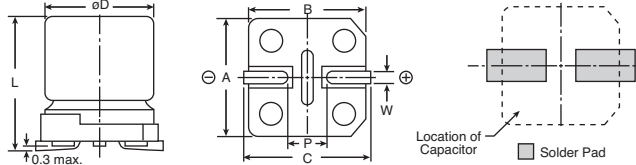
For quantities 50 and up, call for quote.

Specifications:

- Operating temperature: -55°C to +125°C
- Voltage range: 2.5 to 20VDC
- Capacitance range: 22 to 1000µF
- Capacitance tolerance: ±20%
- Rated lifetime: 1000 hours @ 125°C

Features:

- Solid polymer electrolyte
- Ultra low ESR
- Lead free design
- Solvent proof
- High heat resistance to reflow soldering



Case Dimensions: mm

Case Code	øD	L	A	B	C	W	P
F60	ø6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9
H70	ø8	6.7	8.3	8.3	9.0	0.7-1.1	3.1
J80	ø10	7.7	10.3	10.3	11.0	0.7-1.1	4.5



MOUSER STOCK NO.	United Chemi-Con Part Number	Value (µF)	Case Code	Max ESR (mΩ)@20°C 100k-300kHz	Price Each		
					1	10	50
2.5 Volts							
661-PXH2.5V221M	APXH2R5ARA221MF60G	220	F60	35	1.42	1.20	1.02
661-PXH2.5V561M	APXH2R5ARA561MH70G	560	H70	30	2.05	1.74	1.48
661-PXH2.5V102M	APXH2R5ARA102MJ80G	1000	J80	25	3.20	2.71	2.31
4.0 Volts							
661-PXH4V151M	APXH4R0ARA151MF60G	150	F60	35	1.42	1.20	1.02
661-PXH4V221M	APXH4R0ARA221MH70G	220	H70	30	2.05	1.73	1.49
661-PXH4V681M	APXH4R0ARA681MJ80G	680	J80	25	3.19	2.72	2.31
6.3 Volts							
661-PXH6.3V820M	APXH6R3ARA820MF60G	82	F60	40	1.42	1.20	1.03
661-PXH6.3V101M	APXH6R3ARA101MF60G	100	F60	40	1.39	1.02	.976
661-PXH6.3V151M	APXH6R3ARA151MH70G	150	H70	30	1.95	1.48	1.41
661-PXH6.3V221M	APXH6R3ARA221MH70G	220	H70	30	2.05	1.55	1.49
661-PXH6.3V471M	APXH6R3ARA471MJ80G	470	J80	25	2.50	2.02	1.81
10 Volts							
661-PXH10V560M	APXH100ARA560MF60G	56	F60	45	1.40	1.03	.976
661-PXH10V121M	APXH100ARA121MH70G	120	H70	35	2.04	1.54	1.47
661-PXH10V151M	APXH100ARA151MH70G	150	H70	35	2.04	1.54	1.47
661-PXH10V331M	APXH100ARA331MJ80G	330	J80	30	2.55	2.02	1.85
16 Volts							
661-PXH16V390M	APXH160ARA390MF60G	39	F60	50	1.39	1.03	.976
661-PXH16V820M	APXH160ARA820MH70G	82	H70	40	1.66	1.41	1.20
661-PXH16V151M	APXH160ARA151MJ80G	150	J80	35	2.48	2.01	1.80
661-PXH16V181M	APXH160ARA181MJ80G	180	J80	35	2.54	2.01	1.84
20 Volts							
661-PXH20V220M	APXH200ARA220MF60G	22	F60	60	1.44	1.06	1.05
661-PXH20V470M	APXH200ARA470MH70G	47	H70	45	1.57	1.34	1.14
661-PXH20V820M	APXH200ARA820MJ80G	82	J80	45	2.60	2.06	1.90

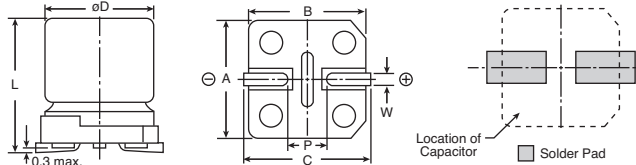
UCC PXC NPCAP™ 105°C SMD SOLID POLYMER ALUMINUM SERIES, LOW ESR

Specifications:

- Operating temperature: -55°C to +105°C
- Voltage range: 2.5 to 16VDC
- Capacitance range: 27 to 470µF

Features:

- Solvent proof
- Cost effective polymer tantalum replacement
- 20 to 30% lower ESR than PXA series
- Designed for two reflow soldering cycles



Case Dimensions: mm

Case Code	øD	L	A	B	C	W	P
E60	ø5	5.7	5.3	5.3	5.9	0.5-0.8	1.4
F60	ø6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9
H70	ø8	6.7	8.3	8.3	9.0	0.7-1.1	3.1



MOUSER STOCK NO.	United Chemi-Con Part Number	Value (µF)	Case Code	Max ESR (mΩ)@20°C 100k-300kHz	Price Each		
					1	10	50
2.5 Volt							
661-PXC2.5VC181M	APXC2R5ARA181ME60G	180	E60	30	1.13	.974	.835
661-PXC2.5VC271M	APXC2R5ARA271MF60G	270	F60	20	1.44	1.22	1.04
661-PXC2.5VC471M	APXC2R5ARA471MH70G	470	H70	17	1.94	1.46	1.40
4 Volt							
661-PXC4VC151M	APXC4R0ARA151ME60G	150	E60	30	1.13	.971	.832
661-PXC4VC221M	APXC4R0ARA221MF60G	220	F60	21	1.44	1.06	1.04
661-PXC4VC331M	APXC4R0ARA331MH70G	330	H70	18	1.94	1.46	1.40
6.3 Volt							
661-PXC6.3VC101M	APXC6R3ARA101ME60G	100	E60	35	.91	.77	.66
661-PXC6.3VC181M	APXC6R3ARA181MF60G	180	F60	22	1.44	1.06	.986
661-PXC6.3VC221M	APXC6R3ARA221MH70G	220	H70	18	1.92	1.46	1.39
10 Volt							
661-PXC10VC56RM	APXC100ARA560ME60G	56	E60	40	1.14	.97	.831
661-PXC10VC82RM	APXC100ARA820MF60G	82	F60	23	1.44	1.06	1.05
661-PXC10VC151M	APXC100ARA151MH70G	150	H70	20	1.98	1.50	1.43
16 Volt							
661-PXC16VC27RM	APXC160ARA270ME60G	27	E60	45	.91	.77	.66
661-PXC16VC39RM	APXC160ARA390MF60G	39	F60	25	1.48	1.09	1.03
661-PXC16VC82RM	APXC160ARA820MH70G	82	H70	25	1.68	1.43	1.22

UCC PSA NPCAP™ 105°C RADIAL SOLID POLYMER ALUMINUM SERIES, LOW ESR

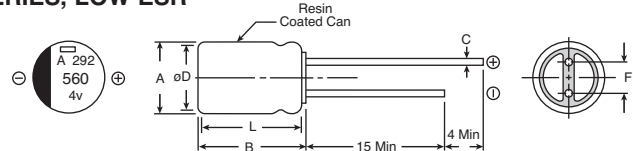
The PSA series uses a solid functional polymer as the electrolyte. This polymer technology insures more reliable performance and higher reliability over the expected lifetime than normal liquid electrolyte capacitors. PSA capacitors are constructed of lead-free materials that can withstand high temperature lead-free soldering. This series are suitable for use in DC-DC converters, voltage regulators, and decoupling applications and are recommended replacements for OS-CON™ capacitors.

Specifications:

- Temperature range: -55°C to +105°C
- Voltage range: 2.5 to 10VDC
- Capacitance range: 27 to 470µF

Features:

- Capacitance tolerance: ± 20%
- Rated lifetime: 2000 hours



MOUSER STOCK NO.	United Chemi-Con Part Number	Value (µF)	Case Size DxL (mm)	Case Dimensions: mm					Max ESR (mΩ)@20°C 100k-300kHz	Ripple (mArms) 105°C/100kHz	Price Each					
				øD	L	A	B	øC			F±0.5	1	50	100	500	1000
2.5 Volt																
661-PSA2.5VB390M	APSA2R5ELL391MFA5G	390	6.3x10.5	6.3	9.8	6.3±0.5	9.8±1.0	0.8	2.5	20	3160	.82	.695	.593	.512	.453
661-PSA2.5VB680M	APSA2R5ELL681MHB5D	680	8x11.5	8	11.5	8±0.5	11.5±1.5	0.8	3.5	7	5580	.71	.66	.58	.49	.40
661-PSA2.5VB820M	APSA2R5ELL821MHB5S	820	8x11.5	8	11.5	8±0.5	11.5±1.5	0.8	3.5	7	5580	.77	.725	.53	.419	.353
661-PSA2.5VB1000M	APSA2R5ELL1021MJB5D	1000	10x11.5	10	11.5	10±0.5	11.5±1.5	0.8	5	6	5860	1.09	1.02	.89	.75	.61
4 Volt																
661-PSA4VB270M	APSA4R0ELL271MFA5G	270	6.3x10.5	6.3	9.8	6.3±0.5	9.8±1.0	0.8	2.5	20	3160	.72	.605	.494	.391	.329
661-PSA4VB390M	APSA4R0ELL391MFA5G	390	6.3x10.5	6.3	9.8	6.3±0.5	9.8±1.0	0.8	2.5	24	3300	.72	.70	.494	.391	.329
661-PSA4VB560M	APSA4R0ELL561MHB5D	560	8x11.5	8	11.5	8±0.5	11.5±1.5	0.8	3.5	7	5580	.77	.65	.53	.419	.353
661-PSA4VB820M	APSA4R0ELL821MJB5D	820	10x11.5	10	11.5	10±0.5	11.5±1.5	0.8	5	6	5860	1.06	.99	.86	.73	.60
6.3 Volt																
661-PSA6.3VB220M	APSA6R3ELL221MFA5G	220	6.3x10.5	6.3	9.8	6.3±0.5	9.8±1.0	0.8	2.5	20	3160	.72	.635	.494	.391	.329
661-PSA6.3VB330M	APSA6R3ELL331MFA5G	330	6.3x10.5	6.3	9.8	6.3±0.5	9.8±1.0	0.8	2.5	28	3190	.72	.60	.496	.393	.331
661-PSA6.3VB390M	APSA6R3ELL391MHB5D	390	8x11.5	8	11.5	8±0.5	11.5±1.5	0.8	3.5	8	5080	.71	.66	.58	.49	.40
661-PSA6.3VB680M	APSA6R3ELL681MHB5D	680	10x11.5	10	11.5	10±0.5	11.5±1.5	0.8	5	7	5860	1.07	.916	.778	.588	.519
10 Volt																
661-PSA10VB47M	APSA100ELL470MFA5G	47	6.3x10.5	6.3	9.8	6.3±0.5	9.8±1.0	0.8	2.5	25	2820	.68	.556	.47	.372	.313
661-PSA10VB68M	APSA100ELL680MFA5G	68	6.3x10.5	6.3	9.8	6.3±0.5	9.8±1.0	0.8	2.5	25	2820	.68	.56	.47	.372	.313
661-PSA10VB100M	APSA100ELL101MFA5G	100	6.3x10.5	6.3	9.8	6.3±0.5	9.8±1.0	0.8	2.5	25	2820	.72	.632	.496	.393	.331
661-PSA10VB270M	APSA100ELL271MHB5S	270	8x11.5	8	11.5	8±0.5	11.5±1.5	0.8	3.5	9	4710	.81	.693	.556	.44	.371
661-PSA10VB470M	APSA100ELL471MJB5S	470	10x11.5	10	11.5	10±0.5	11.5±1.5	0.8	5	8	5650	1.08	.997	.785	.593	.523

