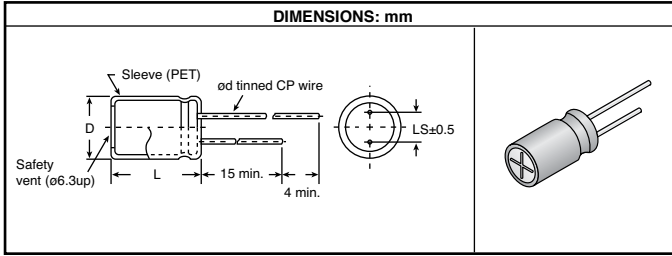


NICHICON Aluminum Electrolytic Capacitors



nichicon UVZ SERIES 105°C CAPACITORS



Specifications:

- Operating temperature range: -55°C ~ +105°C (6.3 ~ 100V), -40°C ~ +105°C (60 ~ 400V), -25°C ~ +105°C (450V)
- Voltage range: 6.3 ~ 450V
- Capacitance range: 0.1 ~ 33000µF
- Capacitance tolerance: ±20% at 120Hz, 20°C
- Small case sizes as VR series, but operating over wide temperature range of -55°C ~ 105°C

Application note:

- A higher voltage capacitor may be used in a lower voltage application

Endurance:

- 1000 hours @ 105°C



Leakage Current:

6.3V ~ 100V	160V ~ 450V
After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater	After 1 minute application of rated voltage, CV ≤ 1000: I = 0.1CV + 40µA or less
After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater	After 1 minutes application of rated voltage, CV > 1000: I = 0.04CV + 100µA or less

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Nichicon Part No.	Value (µF)	Case Size D x L (mm) Max.	LS (mm)	Price Each			
					1	25	100	500
6.3 Volt								
647-UVZ0J101MDD	UVZ0J101MDD	100	5 x 11	2.0	.22	.21	.115	.078
647-UVZ0J221MDD	UVZ0J221MDD	220	5 x 11	2.0	.22	.195	.115	.078
647-UVZ0J331MED	UVZ0J331MED	330	6.3 x 11	2.5	.18	.173	.11	.077
647-UVZ0J471MED	UVZ0J471MED	470	6.3 x 11	2.5	.20	.20	.125	.088
647-UVZ0J102MPD	UVZ0J102MPD	1000	8 x 11.5	3.5	.15	.137	.126	.096
647-UVZ0J222MPD	UVZ0J222MPD	2200	10 x 20	5.0	.48	.45	.326	.242
647-UVZ0J332MPD	UVZ0J332MPD	3300	10 x 20	5.0	.48	.45	.326	.242
647-UVZ0J472MHD	UVZ0J472MHD	4700	12.5 x 20	5.0	.63	.54	.44	.348
647-UVZ0J682MHD	UVZ0J682MHD	6800	12.5 x 25	5.0	.80	.75	.611	.461
647-UVZ0J103MHD	UVZ0J103MHD	10000	16 x 25	7.5	1.22	1.12	.926	.699
647-UVZ0J223MHD	UVZ0J223MHD	22000	18 x 40	7.5	1.74	1.73	1.33	1.02
10 Volt								
647-UVZ1A101MDD	UVZ1A101MDD	100	5 x 11	2.0	.22	.21	.115	.078
647-UVZ1A221MED	UVZ1A221MED	220	6.3 x 11	2.5	.18	.173	.11	.077
647-UVZ1A331MED	UVZ1A331MED	330	6.3 x 11	2.5	.18	.162	.125	.088
647-UVZ1A471MED	UVZ1A471MED	470	6.3 x 11	2.5	.20	.184	.125	.088
647-UVZ1A102MPD	UVZ1A102MPD	1000	10 x 12.5	5.0	.32	.31	.216	.16
647-UVZ1A222MPD	UVZ1A222MPD	2200	10 x 20	5.0	.54	.50	.364	.27
647-UVZ1A332MPD	UVZ1A332MPD	3300	12.5 x 20	5.0	.63	.54	.44	.348
647-UVZ1A472MHD	UVZ1A472MHD	4700	12.5 x 25	5.0	.80	.75	.611	.461
647-UVZ1A682MHD	UVZ0J682MHD	6800	16 x 25	7.5	1.23	1.12	.933	.704
647-UVZ1A103MHD	UVZ1A103MHD	10000	16 x 35.5	7.5	1.48	1.47	1.13	.869
647-UVZ1A153MHD	UVZ1A153MHD	15000	18 x 35.5	7.5	1.57	1.56	1.20	.924
16 Volt								
647-UVZ1C470MDD	UVZ1C470MDD	47	5 x 11	2.0	.22	.21	.115	.078
647-UVZ1C101MDD	UVZ1C101MDD	100	5 x 11	2.0	.22	.15	.115	.078
647-UVZ1C221MED	UVZ1C221MED	220	6.3 x 11	2.5	.19	.19	.116	.082
647-UVZ1C331MPD	UVZ1C331MPD	330	8 x 11.5	3.5	.29	.262	.173	.122
647-UVZ1C471MPD	UVZ1C471MPD	470	8 x 11.5	3.5	.25	.22	.155	.116
647-UVZ1C102MPD	UVZ1C102MPD	1000	10 x 16	5.0	.39	.32	.263	.195
647-UVZ1C222MHD	UVZ1C222MHD	2200	12.5 x 20	5.0	.63	.54	.44	.348
647-UVZ1C332MHD	UVZ1C332MHD	3300	12.5 x 25	5.0	.77	.65	.56	.433
647-UVZ1C472MHD	UVZ1C472MHD	4700	16 x 25	7.5	1.27	1.09	.958	.724
647-UVZ1C682MHD	UVZ1C682MHD	6800	16 x 35.5	7.5	1.79	1.74	1.36	1.04
647-UVZ1C103MHD	UVZ1C103MHD	10000	18 x 35.5	7.5	1.64	1.62	1.25	.958
25 Volt								
647-UVZ1E470MDD	UVZ1E470MDD	47	5 x 11	2.0	.15	.135	.112	.078
647-UVZ1E101MED	UVZ1E101MED	100	6.3 x 11	2.5	.14	.13	.107	.076
647-UVZ1E221MPD	UVZ1E221MPD	220	8 x 11.5	3.5	.22	.21	.135	.095
647-UVZ1E331MPD	UVZ1E331MPD	330	10 x 12.5	5.0	.25	.24	.155	.116
647-UVZ1E471MPD	UVZ1E471MPD	470	10 x 12.5	5.0	.25	.22	.19	.148
647-UVZ1E102MPD	UVZ1E102MPD	1000	10 x 20	5.0	.42	.36	.31	.23
647-UVZ1E222MHD	UVZ1E222MHD	2200	12.5 x 25	5.0	.77	.65	.56	.433
647-UVZ1E332MHD	UVZ1E332MHD	3300	16 x 25	7.5	1.11	.96	.841	.636
647-UVZ1E472MHD	UVZ1E472MHD	4700	16 x 31.5	7.5	1.48	1.39	1.13	.869
647-UVZ1E682MHD	UVZ1E682MHD	6800	18 x 35.5	7.5	1.75	1.65	1.33	1.02
35 Volt								
647-UVZ1V330MDD	UVZ1V330MDD	33	5 x 11	2.0	.22	.21	.115	.078
647-UVZ1V470MDD	UVZ1V470MDD	47	5 x 11	2.0	.15	.14	.112	.078
647-UVZ1V101MED	UVZ1V101MED	100	6.3 x 11	2.5	.19	.18	.116	.082
647-UVZ1V221MPD	UVZ1V221MPD	220	10 x 12.5	5.0	.24	.198	.153	.114
647-UVZ1V331MPD	UVZ1V331MPD	330	10 x 12.5	5.0	.32	.28	.216	.16
647-UVZ1V471MPD	UVZ1V471MPD	470	10 x 16	5.0	.41	.40	.271	.201
647-UVZ1V102MHD	UVZ1V102MHD	1000	12.5 x 20	5.0	.59	.58	.41	.324
647-UVZ1V222MHD	UVZ1V222MHD	2200	16 x 25	7.5	1.04	1.03	.792	.598
647-UVZ1V332MHD	UVZ1V332MHD	3300	16 x 35.5	7.5	1.48	1.43	1.13	.869
647-UVZ1V472MHD	UVZ1V472MHD	4700	18 x 35.5	7.5	1.59	1.44	1.20	.925
50 Volt								
647-UVZ1H0R1MDD	UVZ1H0R1MDD	0.1	5 x 11	2.0	.18	.15	.115	.078
647-UVZ1HR22MDD	UVZ1HR22MDD	0.22	5 x 11	2.0	.18	.15	.115	.078
647-UVZ1HR33MDD	UVZ1HR33MDD	0.33	5 x 11	2.0	.13	.12	.087	.064
647-UVZ1HR47MDD	UVZ1HR47MDD	0.47	5 x 11	2.0	.18	.15	.115	.078
647-UVZ1H010MDD	UVZ1H010MDD	1.0	5 x 11	2.0	.15	.135	.112	.078
647-UVZ1H2R2MDD	UVZ1H2R2MDD	2.2	5 x 11	2.0	.15	.14	.112	.078
647-UVZ1H3R3MDD	UVZ1H3R3MDD	3.3	5 x 11	2.0	.18	.15	.115	.078
647-UVZ1H4R7MDD	UVZ1H4R7MDD	4.7	5 x 11	2.0	.15	.135	.112	.078
647-UVZ1H100MDD	UVZ1H100MDD	10	5 x 11	2.0	.14	.133	.073	.049
647-UVZ1H220MDD	UVZ1H220MDD	22	5 x 11	2.0	.21	.142	.11	.074
647-UVZ1H330MDD	UVZ1H330MDD	33	5 x 11	2.0	.22	.195	.115	.078
647-UVZ1H470MED	UVZ1H470MED	47	6.3 x 11	2.5	.11	.098	.09	.071
647-UVZ1H101MPD	UVZ1H101MPD	100	8 x 11.5	3.5	.23	.226	.145	.103

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Nichicon Part No.	Value (µF)	Case Size D x L (mm) Max.	LS (mm)	Price Each			
					1	25	100	500
50 Volt (cont.)								
647-UVZ1H221MPD	UVZ1H221MPD	220	10 x 12.5	5.0	.32	.31	.216	.16
647-UVZ1H331MPD	UVZ1H331MPD	330	10 x 16	5.0	.41	.34	.276	.205
647-UVZ1H471MHD	UVZ1H471MHD	470	12.5 x 20	5.0	.53	.51	.375	.297
647-UVZ1H102MHD	UVZ1H102MHD	1000	12.5 x 25	5.0	.78	.71	.563	.435
647-UVZ1H222MHD	UVZ1H222MHD	2200	16 x 35.5	7.5	1.51	1.31	1.13	.862
647-UVZ1H332MHD	UVZ1H332MHD	3300	18 x 35.5	7.5	1.92	1.64	1.46	1.11
63 Volt								
647-UVZ1J100MDD	UVZ1J100MDD	10	5 x 11	2.0	.22	.21	.115	.078
647-UVZ1J220MDD	UVZ1J220MDD	22	5 x 11	2.0	.22	.20	.115	.078
647-UVZ1J330MED	UVZ1J330MED	33	6.3 x 11	2.5	.18	.173	.11	.077
647-UVZ1J470MED	UVZ1J470MED	47	6.3 x 11	2.5	.20	.195	.125	.088
647-UVZ1J101MPD	UVZ1J101MPD	100	10 x 12.5	5.0	.25	.20	.155	.116
647-UVZ1J221MPD	UVZ1J221MPD	220	10 x 16	5.0	.41	.37	.276	.205
647-UVZ1J331MPD	UVZ1J331MPD	330	10 x 20	5.0	.53	.51	.332	.241
647-UVZ1J471MHD	UVZ1J471MHD	470	12.5 x 20	5.0	.63	.54	.44	.348
647-UVZ1J102MHD	UVZ1J102MHD	1000	16 x 25	7.5	1.05	1.01	.795	.60
647-UVZ1J222MHD	UVZ1J222MHD	2200	18 x 35.5	7.5	2.32	2.01	1.73	1.32
100 Volt								
647-UVZ2AR47MDD	UVZ2AR47MDD	0.47	5 x 11	2.0	.13	.12	.087	.064
647-UVZ2A010MDD	UVZ2A010MDD	1.0	5 x 11	2.0	.18	.15	.115	.078
647-UVZ2A2R2MDD	UVZ2A2R2MDD	2.2	5 x 11	2.0	.18	.15	.115	.078
647-UVZ2A3R3MDD	UVZ2A3R3MDD	3.3	5 x 11	2.0	.18	.108	.073	.063
647-UVZ2A4R7MDD	UVZ2A4R7MDD	4.7	5 x 11	2.0	.22	.21	.115	.078
647-UVZ2A100MED	UVZ2A100MED	10	6.3 x 11	2.5	.18	.17	.11	.077
647-UVZ2A220MED	UVZ2A220MED	22	6.3 x 11	2.5	.19	.162	.117	.083
647-UVZ2A330MPD	UVZ2A330MPD	33	8 x 11.5	3.5	.24	.223	.164	.123
647-UVZ2A470MPD	UVZ2A470MPD	47	10 x 12.5	5.0	.36	.312	.219	.164
647-UVZ2A101MPD	UVZ2A101MPD	100	10 x 20	5.0	.50	.44	.337	.25
647-UVZ2A221MHD	UVZ2A221MHD	220	12.5 x 25	5.0	.72	.68	.521	.404
647-UVZ2A331MHD	UVZ2A331MHD	330	12.5 x 25	5.0	.80	.72	.579	.448
647-UVZ2A471MHD	UVZ2A471MHD	470	16 x 25	7.5	1.05	1.01	.795	.60
647-UVZ2A102MHD	UVZ2A102MHD	1000	18 x 40	7.5	1.82	1.65	1.38	1.05
160 Volt								
647-UVZ2C010MED	UVZ2C010MED	1.0	6.3 x 11	2.5	.15	.13	.114	.087
647-UVZ2C2R2MED	UVZ2C2R2MED	2.2	6.3 x 11	2.5	.15	.12	.118	.096
647-UVZ2C3R3MED	UVZ2C3R3MED	3.3	6.3 x 11	2.5	.17	.15	.147	.118
647-UVZ2C4R7MED	UVZ2C4R7MED	4.7	6.3 x 11	2.5	.18	.		