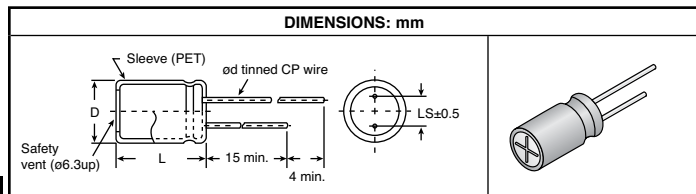


# NICHICON Aluminum Electrolytic Capacitors



## nichicon UVZ SERIES 105°C CAPACITORS



### Specifications:

- Operating temperature range: -55°C ~ +105°C (6.3V ~ 100V), -40°C ~ +105°C (60V ~ 400V), -25°C ~ +105°C (450V)
- Voltage range: 6.3V ~ 450V
- Capacitance range: 0.1µF ~ 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 greater than listed, 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
<b>6.3 Volt</b>								
647-UVZJ101MDD	UVZJ101MDD	100	5 x 11	2.0	.17	.152	.114	.08
647-UVZJ221MDD	UVZJ221MDD	220	5 x 11	2.0	.17	.152	.114	.08
647-UVZJ331MED	UVZJ331MED	330	6.3 x 11	2.5	.25	.20	.143	.101
647-UVZJ471MED	UVZJ471MED	470	6.3 x 11	2.5	.27	.251	.157	.11
647-UVZJ102MPD	UVZJ102MPD	1000	8 x 11.5	3.5	.35	.28	.21	.157
647-UVZJ222MPD	UVZJ222MPD	2200	10 x 20	5.0	.56	.527	.382	.283
647-UVZJ332MPD	UVZJ332MPD	3300	10 x 20	5.0	.58	.546	.395	.293
647-UVZJ472MHD	UVZJ472MHD	4700	12.5 x 20	5.0	.67	.621	.491	.381
647-UVZJ682MHD	UVZJ682MHD	6800	12.5 x 25	5.0	1.15	1.07	.875	.661
647-UVZJ103MHD	UVZJ103MHD	10000	16 x 25	7.5	1.22	1.12	.926	.699
647-UVZJ223MHD	UVZJ223MHD	22000	18 x 40	7.5	2.52	2.51	1.93	1.48
<b>10 Volt</b>								
647-UVZ1A101MDD	UVZ1A101MDD	100	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1A221MDD	UVZ1A221MDD	220	6.3 x 11	2.5	.25	.20	.143	.101
647-UVZ1A331MED	UVZ1A331MED	330	6.3 x 11	2.5	.27	.251	.157	.11
647-UVZ1A471MED	UVZ1A471MED	470	6.3 x 11	2.5	.27	.251	.157	.11
647-UVZ1A102MPD	UVZ1A102MPD	1000	10 x 12.5	5.0	.38	.362	.254	.189
647-UVZ1A222MPD	UVZ1A222MPD	2200	10 x 20	5.0	.50	.42	.348	.276
647-UVZ1A332MHD	UVZ1A332MHD	3300	12.5 x 20	5.0	.70	.64	.506	.392
647-UVZ1A472MHD	UVZ1A472MHD	4700	12.5 x 25	5.0	1.18	1.10	.898	.678
647-UVZ1A682MHD	UVZ1A682MHD	6800	16 x 25	7.5	1.34	1.22	1.02	.771
647-UVZ1A103MHD	UVZ1A103MHD	10000	16 x 35.5	7.5	1.83	1.72	1.39	1.07
647-UVZ1A153MHD	UVZ1A153MHD	15000	18 x 35.5	7.5	1.57	1.56	1.20	.961
<b>16 Volt</b>								
647-UVZ1C470MDD	UVZ1C470MDD	47	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1C101MDD	UVZ1C101MDD	100	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1C221MED	UVZ1C221MED	220	6.3 x 11	2.5	.25	.22	.145	.102
647-UVZ1C331MPD	UVZ1C331MPD	330	8 x 11.5	3.5	.32	.26	.195	.146
647-UVZ1C471MPD	UVZ1C471MPD	470	8 x 11.5	3.5	.32	.275	.198	.148
647-UVZ1C102MPD	UVZ1C102MPD	1000	10 x 16	5.0	.48	.398	.327	.243
647-UVZ1C222MHD	UVZ1C222MHD	2200	12.5 x 20	5.0	.65	.601	.475	.368
647-UVZ1C332MHD	UVZ1C332MHD	3300	12.5 x 25	5.0	1.21	1.01	.873	.675
647-UVZ1C472MHD	UVZ1C472MHD	4700	16 x 25	7.5	1.13	.977	.858	.649
647-UVZ1C682MHD	UVZ1C682MHD	6800	16 x 35.5	7.5	1.84	1.79	1.40	1.07
647-UVZ1C103MHD	UVZ1C103MHD	10000	18 x 35.5	7.5	2.10	2.07	1.60	1.22
<b>25 Volt</b>								
647-UVZ1E470MDD	UVZ1E470MDD	47	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1E101MED	UVZ1E101MED	100	6.3 x 11	2.5	.25	.204	.147	.103
647-UVZ1E221MPD	UVZ1E221MPD	220	8 x 11.5	3.5	.38	.31	.251	.186
647-UVZ1E331MPD	UVZ1E331MPD	330	10 x 12.5	5.0	.30	.247	.191	.143
647-UVZ1E471MPD	UVZ1E471MPD	470	10 x 12.5	5.0	.38	.317	.251	.186
647-UVZ1E102MPD	UVZ1E102MPD	1000	10 x 20	5.0	.47	.409	.349	.259
647-UVZ1E222MHD	UVZ1E222MHD	2200	12.5 x 25	5.0	1.11	.926	.798	.617
647-UVZ1E332MHD	UVZ1E332MHD	3300	16 x 25	7.5	1.26	1.09	.959	.725
647-UVZ1E472MHD	UVZ1E472MHD	4700	16 x 31.5	7.5	1.83	1.72	1.39	1.07
647-UVZ1E682MHD	UVZ1E682MHD	6800	18 x 35.5	7.5	2.47	2.33	1.88	1.44
<b>35 Volt</b>								
647-UVZ1V330MDD	UVZ1V330MDD	33	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1V470MDD	UVZ1V470MDD	47	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1V101MED	UVZ1V101MED	100	6.3 x 11	2.5	.25	.22	.145	.102
647-UVZ1V221MPD	UVZ1V221MPD	220	10 x 12.5	5.0	.35	.247	.213	.16
647-UVZ1V331MPD	UVZ1V331MPD	330	10 x 12.5	5.0	.40	.383	.269	.20
647-UVZ1V471MPD	UVZ1V471MPD	470	10 x 16	5.0	.48	.47	.319	.236
647-UVZ1V102MHD	UVZ1V102MHD	1000	12.5 x 20	5.0	.69	.587	.482	.38
647-UVZ1V222MHD	UVZ1V222MHD	2200	16 x 25	7.5	1.37	1.36	1.04	.791
647-UVZ1V332MHD	UVZ1V332MHD	3300	16 x 35.5	7.5	1.29	1.21	.987	.758
647-UVZ1V472MHD	UVZ1V472MHD	4700	18 x 35.5	7.5	2.08	1.89	1.57	1.21
<b>50 Volt</b>								
647-UVZ1H0R1MDD	UVZ1H0R1MDD	0.1	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1HR22MDD	UVZ1HR22MDD	0.22	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1HR33MDD	UVZ1HR33MDD	0.33	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1HR47MDD	UVZ1HR47MDD	0.47	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1H010MDD	UVZ1H010MDD	1.0	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1H2R2MDD	UVZ1H2R2MDD	2.2	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1H3R3MDD	UVZ1H3R3MDD	3.3	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1H4R7MDD	UVZ1H4R7MDD	4.7	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1H100MDD	UVZ1H100MDD	10	5 x 11	2.0	.20	.162	.12	.084
647-UVZ1H220MDD	UVZ1H220MDD	22	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1H330MDD	UVZ1H330MDD	33	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1H470MED	UVZ1H470MED	47	6.3 x 11	2.5	.25	.204	.147	.103
647-UVZ1H101MPD	UVZ1H101MPD	100	8 x 11.5	3.5	.27	.261	.171	.112

MOUSER STOCK NO.	Nichicon Part No.	Value (µF)	Case Size D x L (mm) Max.	LS (mm)	Price Each			
					1	25	100	500
<b>50 Volt (cont.)</b>								
647-UVZ1H221MPD	UVZ1H221MPD	220	10 x 12.5	5.0	.38	.364	.256	.19
647-UVZ1H331MPD	UVZ1H331MPD	330	10 x 16	5.0	.47	.428	.319	.237
647-UVZ1H471MHD	UVZ1H471MHD	470	12.5 x 20	5.0	.63	.613	.451	.357
647-UVZ1H102MHD	UVZ1H102MHD	1000	12.5 x 25	5.0	.96	.807	.695	.537
647-UVZ1H222MHD	UVZ1H222MHD	2200	16 x 35.5	7.5	1.72	1.40	1.31	1.00
647-UVZ1H332MHD	UVZ1H332MHD	3300	18 x 35.5	7.5	2.40	2.05	1.82	1.39
<b>63 Volt</b>								
647-UVZ1J100MDD	UVZ1J100MDD	10	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1J220MDD	UVZ1J220MDD	22	5 x 11	2.0	.17	.152	.114	.08
647-UVZ1J330MED	UVZ1J330MED	33	6.3 x 11	2.5	.25	.20	.143	.101
647-UVZ1J470MED	UVZ1J470MED	47	6.3 x 11	2.5	.27	.251	.157	.11
647-UVZ1J101MPD	UVZ1J101MPD	100	10 x 12.5	5.0	.30	.241	.187	.14
647-UVZ1J221MPD	UVZ1J221MPD	220	10 x 16	5.0	.47	.427	.318	.236
647-UVZ1J331MPD	UVZ1J331MPD	330	10 x 20	5.0	.51	.493	.352	.278
647-UVZ1J471MHD	UVZ1J471MHD	470	12.5 x 20	5.0	.69	.634	.501	.388
647-UVZ1J102MHD	UVZ1J102MHD	1000	16 x 25	7.5	1.26	1.21	.956	.721
647-UVZ1J222MHD	UVZ1J222MHD	2200	18 x 35.5	7.5	2.83	2.51	2.16	1.65
<b>100 Volt</b>								
647-UVZ2AR47MDD	UVZ2AR47MDD	0.47	5 x 11	2.0	.17	.152	.114	.08
647-UVZ2A010MDD	UVZ2A010MDD	1.0	5 x 11	2.0	.17	.152	.114	.08
647-UVZ2A2R2MDD	UVZ2A2R2MDD	2.2	5 x 11	2.0	.17	.152	.114	.08
647-UVZ2A3R3MDD	UVZ2A3R3MDD	3.3	5 x 11	2.0	.17	.152	.114	.08
647-UVZ2A4R7MDD	UVZ2A4R7MDD	4.7	5 x 11	2.0	.17	.152	.114	.08
647-UVZ2A100MED	UVZ2A100MED	10	6.3 x 11	2.5	.25	.20	.143	.101
647-UVZ2A20MED	UVZ2A20MED	22	6.3 x 11	2.5	.23	.201	.145	.103
647-UVZ2A30MPD	UVZ2A30MPD	33	8 x 11.5	3.5	.34	.278	.209	.157
647-UVZ2A470MPD	UVZ2A470MPD	47	10 x 12.5	5.0	.37	.363	.248	.184
647-UVZ2A101MPD	UVZ2A101MPD	100	10 x 20	5.0	.61	.538	.412	.305
647-UVZ2A221MHD	UVZ2A221MHD	220	12.5 x 25	5.0	.96	.913	.70	.542
647-UVZ2A331MHD	UVZ2A331MHD	330	12.5 x 25	5.0	.80	.72	.579	.448
647-UVZ2A471MHD	UVZ2A471MHD	470	16 x 25	7.5	1.33	1.28	1.01	.765
647-UVZ2A102MHD	UVZ2A102MHD	1000	18 x 40	7.5	1.73	1.48	1.32	1.08
<b>160 Volt</b>								
647-UVZ2C010MED	UVZ2C010MED	1.0	6.3 x 11	2.5	.25	.196	.141	.103
647-UVZ2C2R2MED	UVZ2C2R2MED	2.2	6.3 x 11	2.5	.15	.126	.123	.094
647-UVZ2C3R3MED	UVZ2C3R3MED	3.3	6.3 x 11	2.5	.17	.155	.127	.095
647-UVZ2C4R7MED	UVZ2C4R7MED	4.7	6.3 x 11					