

NICHICON Aluminum Electrolytic Capacitors



nichicon UVR 85°C GENERAL PURPOSE SERIES (LEAD FREE)

Specifications:

- Operating temperature range: -40°C ~ +85°C (6.3 ~ 400V), -25°C ~ +85°C (450V)
- Voltage range: 6.3 ~ 450V
- Capacitance range: 0.1 ~ 33000µF
- Capacitance tolerance: ±20% at 120Hz, 20°C
- Endurance: 2000 hours @ 85°C

Application note:

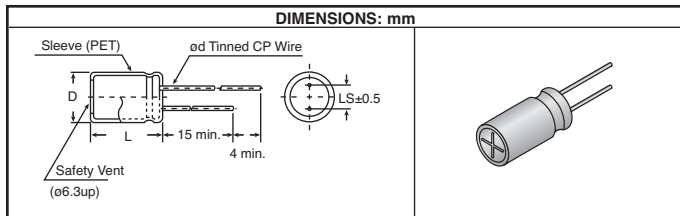
- A higher voltage capacitor may be used in a lower voltage application.



LEAD-FREE



RoHS Compliant



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	10	100	500
6.3 Volt								
647-UVR0J101MDD	UVR0J101MDD	100	5 x 11	2.0	.18	.11	.06	.042
647-UVR0J221MDD	UVR0J221MDD	220	5 x 11	2.0	.18	.13	.05	.042
647-UVR0J331MED	UVR0J331MED	330	6.3 x 11	2.5	.24	.16	.068	.057
647-UVR0J471MED	UVR0J471MED	470	6.3 x 11	2.5	.26	.18	.102	.072
647-UVR0J102MPD	UVR0J102MPD	1000	8 x 11.5	3.5	.32	.222	.125	.088
647-UVR0J222MPD	UVR0J222MPD	2200	10 x 20	5.0	.53	.40	.275	.20
647-UVR0J332MPD	UVR0J332MPD	3300	10 x 20	5.0	.64	.463	.305	.226
647-UVR0J682MHD	UVR0J682MHD	6800	12.5 x 25	5.0	.89	.676	.436	.374
647-UVR0J103MHD	UVR0J103MHD	10000	16 x 25	7.5	1.42	1.11	.746	.634
647-UVR0J153MHD	UVR0J153MHD	15000	16 x 35.5	7.5	1.65	1.30	.868	.737
647-UVR0J223MHD	UVR0J223MHD	22000	18 x 40	7.5	1.74	1.40	.919	.817
10 Volt								
647-UVR1A101MDD	UVR1A101MDD	100	5 x 11	2.0	.18	.12	.06	.042
647-UVR1A221MED	UVR1A221MED	220	6.3 x 11	2.5	.24	.16	.083	.057
647-UVR1A331MED	UVR1A331MED	330	6.3 x 11	2.5	.26	.18	.102	.072
647-UVR1A471MED	UVR1A471MED	470	6.3 x 11	2.5	.26	.18	.102	.072
647-UVR1A102MPD	UVR1A102MPD	1000	10 x 12.5	5.0	.38	.28	.163	.142
647-UVR1A222MPD	UVR1A222MPD	2200	10 x 20	5.0	.58	.42	.31	.22
647-UVR1A332MPD	UVR1A332MPD	3300	12.5 x 20	5.0	.81	.599	.376	.324
647-UVR1A472MHD	UVR1A472MHD	4700	12.5 x 25	5.0	.94	.718	.464	.397
647-UVR1A682MHD	UVR1A682MHD	6800	16 x 25	7.5	1.43	1.04	.75	.62
647-UVR1A103MHD	UVR1A103MHD	10000	16 x 35.5	7.5	1.65	1.30	.868	.737
647-UVR1A153MHD	UVR1A153MHD	15000	18 x 35.5	7.5	1.72	1.35	.904	.768
16 Volt								
647-UVR1C100MDD	UVR1C100MDD	10	5 x 11	2.0	.18	.11	.06	.042
647-UVR1C220MDD	UVR1C220MDD	22	5 x 11	2.0	.16	.10	.06	.042
647-UVR1C330MDD	UVR1C330MDD	33	5 x 11	2.0	.16	.10	.06	.042
647-UVR1C470MDD	UVR1C470MDD	47	5 x 11	2.0	.16	.10	.06	.042
647-UVR1C101MDD	UVR1C101MDD	100	5 x 11	2.0	.18	.13	.05	.042
647-UVR1C221MED	UVR1C221MED	220	6.3 x 11	2.5	.26	.17	.102	.072
647-UVR1C331MPD	UVR1C331MPD	330	8 x 11.5	3.5	.27	.186	.105	.074
647-UVR1C471MPD	UVR1C471MPD	470	8 x 11.5	3.5	.30	.21	.119	.084
647-UVR1C102MPD	UVR1C102MPD	1000	10 x 16	5.0	.51	.37	.245	.182
647-UVR1C222MHD	UVR1C222MHD	2200	12.5 x 20	5.0	.77	.58	.374	.30
647-UVR1C332MHD	UVR1C332MHD	3300	12.5 x 25	5.0	.94	.718	.513	.397
647-UVR1C472MHD	UVR1C472MHD	4700	16 x 25	7.5	1.39	1.09	.73	.62
647-UVR1C682MHD	UVR1C682MHD	6800	16 x 35.5	7.5	1.65	1.30	.868	.737
647-UVR1C103MHD	UVR1C103MHD	10000	18 x 35.5	7.5	1.72	1.35	.904	.768
25 Volt								
647-UVR1E100MDD	UVR1E100MDD	10	5 x 11	2.0	.18	.11	.06	.042
647-UVR1E220MDD	UVR1E220MDD	22	5 x 11	2.0	.18	.11	.06	.042
647-UVR1E330MDD	UVR1E330MDD	33	5 x 11	2.0	.17	.13	.06	.042
647-UVR1E470MDD	UVR1E470MDD	47	5 x 11	2.0	.18	.12	.06	.042
647-UVR1E101MED	UVR1E101MED	100	6.3 x 11	2.5	.24	.16	.068	.057
647-UVR1E221MPD	UVR1E221MPD	220	8 x 11.5	3.5	.27	.186	.105	.074
647-UVR1E331MPD	UVR1E331MPD	330	10 x 12.5	5.0	.22	.20	.135	.101
647-UVR1E471MPD	UVR1E471MPD	470	10 x 12.5	5.0	.40	.30	.186	.139
647-UVR1E102MPD	UVR1E102MPD	1000	10 x 20	5.0	.57	.418	.275	.204
647-UVR1E222MHD	UVR1E222MHD	2200	12.5 x 25	5.0	.94	.718	.464	.397
647-UVR1E332MHD	UVR1E332MHD	3300	16 x 25	7.5	1.39	1.09	.73	.62
647-UVR1E472MHD	UVR1E472MHD	4700	16 x 31.5	7.5	1.40	1.10	.738	.627
647-UVR1E682MHD	UVR1E682MHD	6800	18 x 35.5	7.5	1.77	1.43	.937	.833
35 Volt								
647-UVR1V100MDD	UVR1V100MDD	10	5 x 11	2.0	.18	.11	.06	.042
647-UVR1V220MDD	UVR1V220MDD	22	5 x 11	2.0	.18	.11	.06	.042
647-UVR1V330MDD	UVR1V330MDD	33	5 x 11	2.0	.18	.13	.06	.042
647-UVR1V470MDD	UVR1V470MDD	47	5 x 11	2.0	.18	.13	.06	.042
647-UVR1V101MED	UVR1V101MED	100	6.3 x 11	2.5	.26	.17	.102	.072
647-UVR1V221MPD	UVR1V221MPD	220	10 x 12.5	5.0	.22	.20	.135	.101
647-UVR1V331MPD	UVR1V331MPD	330	10 x 12.5	5.0	.43	.31	.186	.139
647-UVR1V471MPD	UVR1V471MPD	470	10 x 16	5.0	.45	.31	.186	.139
647-UVR1V102MHD	UVR1V102MHD	1000	12.5 x 20	5.0	.60	.426	.239	.208
647-UVR1V222MHD	UVR1V222MHD	2200	16 x 25	7.5	1.24	.981	.654	.555
647-UVR1V332MHD	UVR1V332MHD	3300	16 x 35.5	7.5	1.65	1.30	.868	.737
647-UVR1V472MHD	UVR1V472MHD	4700	18 x 35.5	7.5	1.85	1.40	.972	.80
50 Volt								
647-UVR1HR33MDD	UVR1HR33MDD	0.33	5 x 11	2.0	.18	.11	.05	.042
647-UVR1HR47MDD	UVR1HR47MDD	0.47	5 x 11	2.0	.18	.12	.05	.042
647-UVR1H010MDD	UVR1H010MDD	1.0	5 x 11	2.0	.16	.10	.06	.042
647-UVR1H2R2MDD	UVR1H2R2MDD	2.2	5 x 11	2.0	.16	.10	.06	.042
647-UVR1H3R3MDD	UVR1H3R3MDD	3.3	5 x 11	2.0	.16	.10	.05	.042
647-UVR1H4R7MDD	UVR1H4R7MDD	4.7	5 x 11	2.0	.16	.10	.06	.042
647-UVR1H100MDD	UVR1H100MDD	10	5 x 11	2.0	.18	.11	.06	.042
647-UVR1H220MDD	UVR1H220MDD	22	5 x 11	2.0	.18	.11	.06	.042
647-UVR1H330MDD	UVR1H330MDD	33	5 x 11	2.0	.18	.13	.06	.042
647-UVR1H470MED	UVR1H470MED	47	6.3 x 11	2.5	.24	.16	.083	.057
647-UVR1H101MPD	UVR1H101MPD	100	8 x 11.5	3.5	.27	.186	.105	.074

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	10	100	500
50 Volt (cont.)								
647-UVR1H221MPD	UVR1H221MPD	220	10 x 12.5	5.0	.27	.25	.191	.142
647-UVR1H331MPD	UVR1H331MPD	330	10 x 16	5.0	.53	.373	.245	.182
647-UVR1H471MHD	UVR1H471MHD	470	12.5 x 20	5.0	.63	.47	.296	.25
647-UVR1H102MHD	UVR1H102MHD	1000	12.5 x 25	5.0	.94	.718	.464	.397
647-UVR1H222MHD	UVR1H222MHD	2200	16 x 35.5	7.5	1.68	1.32	.882	.749
647-UVR1H332MHD	UVR1H332MHD	3300	18 x 35.5	7.5	1.73	1.36	.91	.773
63 Volt								
647-UVR1J100MDD	UVR1J100MDD	10	5 x 11	2.0	.18	.13	.06	.042
647-UVR1J220MDD	UVR1J220MDD	22	5 x 11	2.0	.18	.13	.06	.042
647-UVR1J330MED	UVR1J330MED	33	6.3 x 11	2.5	.23	.16	.083	.057
647-UVR1J470MED	UVR1J470MED	47	6.3 x 11	2.5	.26	.18	.102	.072
647-UVR1J101MPD	UVR1J101MPD	100	10 x 12.5	5.0	.30	.225	.135	.101
647-UVR1J221MPD	UVR1J221MPD	220	10 x 16	5.0	.53	.373	.209	.182
647-UVR1J331MPD	UVR1J331MPD	330	10 x 20	5.0	.64	.47	.348	.25
647-UVR1J471MHD	UVR1J471MHD	470	12.5 x 20	5.0	.81	.599	.376	.324
647-UVR1J102MHD	UVR1J102MHD	1000	16 x 25	7.5	1.22	.96	.64	.544
647-UVR1J222MHD	UVR1J222MHD	2200	18 x 35.5	7.5	1.85	1.42	.976	.80
100 Volt								
647-UVR2A0R1MDD	UVR2A0R1MDD	0.1	5 x 11	2.0	.18	.13	.05	.042
647-UVR2AR33MDD	UVR2AR33MDD	0.33	5 x 11	2.0	.18	.12	.05	.042
647-UVR2AR47MDD	UVR2AR47MDD	0.47	5 x 11	2.0	.18	.12	.05	.042
647-UVR2A010MDD	UVR2A010MDD	1.0	5 x 11	2.0	.18	.13	.06	.042
647-UVR2A2R2MDD	UVR2A2R2MDD	2.2	5 x 11	2.0	.18	.12	.06	.042
647-UVR2A3R3MDD	UVR2A3R3MDD	3.3	5 x 11	2.0	.18	.12	.05	.042
647-UVR2A4R7MDD	UVR2A4R7MDD	4.7	5 x 11	2.0	.18	.13	.06	.042
647-UVR2A100MED	UVR2A100MED	10	6.3 x 11	2.5	.24	.16	.083	.057
647-UVR2A220MED	UVR2A220MED	22	6.3 x 11	2.5	.26	.18	.102	.072
647-UVR2A330MPD	UVR2A330MPD	33	8 x 11.5	3.5	.32	.222	.125	.088
647-UVR2A470MPD	UVR2A470MPD	47	10 x 12.5	5.0	.36	.27	.155	.139
647-UVR2A101MPD	UVR2A101MPD	100	10 x 20	5.0	.58	.43	.305	.22
647-UVR2A221MHD	UVR2A221MHD	220	12.5 x 25	5.0	.86	.657	.424	.363
647-UVR2A331MHD	UVR2A331MHD	330	12.5 x 25	5.0	.71	.513	.464	.397
647-UVR2A471MHD	UVR2A471MHD	470	16 x 25	7.5	1.22	.96	.64	.544
647-UVR2A102MHD	UVR2A102MHD	1000	18 x 40	7.5	1.65	1.30	.868	.737
160 Volt								
647-UVR2C010MED	UVR2C010MED	1.0	6.3 x 11	2.5	.25	.192	.086	.076
647-UVR2C4R7MED	UVR2C4R7MED	4.7	6.3 x 11	2.5	.14	.13	.116	.084
647-UVR2C100MPD	UVR2C100MPD	10	8 x 11.5	3.5	.33	.21	.132	.11
647-UVR2C220MPD	UVR2C220MPD	22	10 x 16	5.0	.38	.27	.199	.14
647-UVR2C330MPD	UVR2C330MPD	33	10 x 20	5.0	.58	.43	.259	.22
647-UVR2C470MHD	UVR2C470MHD	47	12.5 x 20	5.0	.65	.49	.278	.242
647-UVR2C101MHD	UVR2C101MHD	100	12.5 x 25	5.0	.93	.709	.506	.39
647-UVR2C221MHD	UVR2C221MHD	220	16 x 35.5	7.5	1.42	1.11	.746	.634
647-UVR2C331MHD	UVR2C331MHD	330	18 x 40	7.5	1.82	1.38	.958	.79
647-UVR2C471MRD	UVR2C471MRD	470	22 x 40	10.0	2.92	2.36	1.54	1.36