

NICHICON Aluminum Electrolytic Capacitors **nichicon**

nichicon USR 7MM 85°C SERIES, GENERAL PURPOSE

Specifications:

- Operating temperature range: -40°C ~ +85°C
- Voltage range: 4V ~ 50V
- Capacitance range: 0.1µF ~ 470µF
- Endurance: 2000 hours @ 85°C
- Capacitance tolerance: ±20% at 120Hz, 20°C
- Leakage current: after 2 minutes application of rated voltage, leakage current is no more than 0.01CV or 3µA, whichever is greater

Application Note:

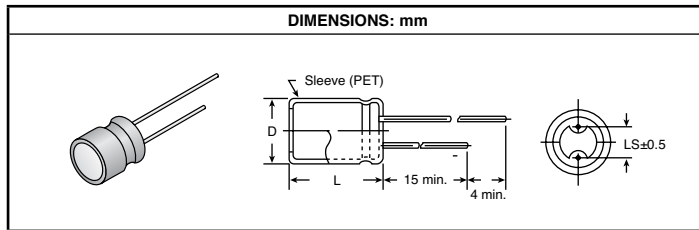
- A higher voltage capacitor may be used in a lower voltage application



LEAD-FREE



RoHS Compliant



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Nichicon Part No.	Volt (DC)	Value (µF)	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	10	100	500
647-USR0J220MDD	USR0J220MDD	6.3	22	4 x 7	1.5	.25	.173	.098	.069
647-USR0J330MDD	USR0J330MDD	6.3	33	4 x 7	1.5	.25	.173	.098	.069
647-USR0J470MDD	USR0J470MDD	6.3	47	4 x 7	1.5	.25	.175	.099	.07
647-USR0J101MDD	USR0J101MDD	6.3	100	5 x 7	2.0	.59	.375	.247	.178
647-USR0J221MDD	USR0J221MDD	6.3	220	6.3 x 7	2.5	.54	.368	.267	.186
647-USR0J331MDD	USR0J331MDD	6.3	330	8 x 7	3.5	.43	.315	.236	.166
647-USR1A220MDD	USR1A220MDD	10	22	4 x 7	1.5	.25	.173	.098	.069
647-USR1A330MDD	USR1A330MDD	10	33	4 x 7	1.5	.25	.173	.098	.069
647-USR1A470MDD	USR1A470MDD	10	47	5 x 7	2.0	.19	.172	.156	.121
647-USR1A101MDD	USR1A101MDD	10	100	6.3 x 7	2.5	.50	.343	.249	.173
647-USR1A221MDD	USR1A221MDD	10	220	8 x 7	3.5	.19	.185	.171	.156
647-USR1C100MDD	USR1C100MDD	16	10	4 x 7	1.5	.25	.173	.098	.069
647-USR1C220MDD	USR1C220MDD	16	22	4 x 7	1.5	.25	.173	.098	.069
647-USR1C330MDD	USR1C330MDD	16	33	5 x 7	2.0	.56	.353	.234	.169
647-USR1C470MDD	USR1C470MDD	16	47	5 x 7	2.0	.59	.375	.247	.178
647-USR1C101MDD	USR1C101MDD	16	100	6.3 x 7	2.5	.36	.246	.109	.097
647-USR1E100MDD	USR1E100MDD	25	10	4 x 7	1.5	.25	.173	.098	.069
647-USR1E220MDD	USR1E220MDD	25	22	5 x 7	2.0	.19	.173	.156	.121

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MOUSER STOCK NO.	Nichicon Part No.	Volt (DC)	Value (µF)	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	10	100	500
647-USR1E330MDD	USR1E330MDD	25	33	5 x 7	2.0	.19	.172	.156	.121
647-USR1E470MDD	USR1E470MDD	25	47	6.3 x 7	2.5	.52	.353	.257	.178
647-USR1V470MDD	USR1V470MDD	35	47	4 x 7	1.5	.25	.173	.098	.069
647-USR1V100MDD	USR1V100MDD	35	10	4 x 7	1.5	.25	.173	.098	.069
647-USR1V220MDD	USR1V220MDD	35	22	5 x 7	2.0	.59	.373	.247	.178
647-USR1V330MDD	USR1V330MDD	35	33	6.3 x 7	2.5	.52	.353	.257	.178
647-USR1V470MDD	USR1V470MDD	35	47	8 x 7	3.5	.40	.291	.217	.152
647-USR1H0R1MDD	USR1H0R1MDD	50	.1	4 x 7	1.5	.25	.173	.098	.069
647-USR1HR22MDD	USR1HR22MDD	50	.22	4 x 7	1.5	.25	.173	.098	.069
647-USR1HR33MDD	USR1HR33MDD	50	.33	4 x 7	1.5	.25	.173	.098	.069
647-USR1HR47MDD	USR1HR47MDD	50	.47	4 x 7	1.5	.25	.173	.098	.069
647-USR1H010MDD	USR1H010MDD	50	1	4 x 7	1.5	.25	.173	.098	.069
647-USR1H2R2MDD	USR1H2R2MDD	50	2.2	4 x 7	1.5	.25	.173	.098	.069
647-USR1H3R3MDD	USR1H3R3MDD	50	3.3	4 x 7	1.5	.25	.173	.098	.069
647-USR1H4R7MDD	USR1H4R7MDD	50	4.7	4 x 7	1.5	.25	.173	.098	.069
647-USR1H100MDD	USR1H100MDD	50	10	5 x 7	2.0	.56	.355	.234	.169
647-USR1H220MDD	USR1H220MDD	50	22	6.3 x 7	2.5	.52	.353	.257	.178
647-USR1H330MDD	USR1H330MDD	50	33	8 x 7	3.5	.42	.306	.228	.161

nichicon UVP 85°C BI-POLAR SERIES (LEAD FREE)

Specifications:

- Operating temperature range: -40°C ~ +85°C
- Voltage range: 6.3V ~ 100V
- Capacitance range: 0.47µF ~ 6800µF
- Capacitance tolerance: ±20% at 120Hz, 20°C
- Leakage current: After 5 minutes application of rated voltage, leakage current is no more than 0.03CV or 3µA, whichever is greater
- Endurance: 2000 hours @ 85°C with polarity reversed every 250 hours

Features:

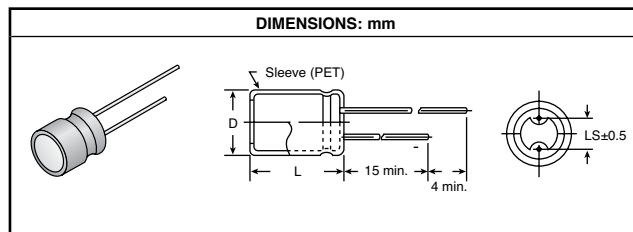
- Standard bi-polarized series for entertainment electronics
- Ideal for circuits where reverse voltage is applied when switches are turned off or on where the polarity is not constant

Application Note:

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



LEAD-FREE



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Nichicon Part No.	Volt (DC)	Value (µF)	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	10	100	500
647-UVP0J330MDD	UVP0J330MDD	6.3	33	5 x 11	2.0	.22	.142	.118	.106
647-UVP0J101MED	UVP0J101MED	6.3	100	6.3 x 11	2.5	.22	.207	.18	.139
647-UVP0J221MPD	UVP0J221MPD	6.3	220	8 x 11.5	3.5	.46	.323	.209	.159
647-UVP0J471MPD	UVP0J471MPD	6.3	470	10 x 12.5	5.0	.45	.418	.352	.23
647-UVP0J102MPD	UVP0J102MPD	6.3	1000	10 x 20	5.0	.54	.484	.412	.305
647-UVP0J222MHD	UVP0J222MHD	6.3	2200	12.5 x 25	5.0	.99	.91	.625	.586
647-UVP0J332MHD	UVP0J332MHD	6.3	3300	16 x 25	7.5	1.37	1.24	.814	.798
647-UVP0J472MHD	UVP0J472MHD	6.3	4700	16 x 31.5	7.5	1.65	1.49	1.02	.956
647-UVP0J682MHD	UVP0J682MHD	6.3	6800	18 x 35.5	7.5	2.39	2.16	1.56	1.39
647-UVP1A220MDD	UVP1A220MDD	10	22	5 x 11	2.0	.22	.142	.118	.106
647-UVP1A470MDD	UVP1A470MDD	10	47	5 x 11	2.0	.22	.142	.118	.106
647-UVP1A101MED	UVP1A101MED	10	100	6.3 x 11	2.5	.30	.271	.237	.178
647-UVP1A221MPD	UVP1A221MPD	10	220	8 x 11.5	3.5	.56	.39	.223	.194
647-UVP1A331MPD	UVP1A331MPD	10	330	10 x 16	5.0	.45	.418	.352	.23
647-UVP1A471MPD	UVP1A471MPD	10	470	10 x 16	5.0	.45	.418	.352	.23
647-UVP1A102MHD	UVP1A102MHD	10	1000	12.5 x 20	5.0	.81	.742	.632	.441
647-UVP1A222MHD	UVP1A222MHD	10	2200	16 x 25	7.5	1.35	1.22	.80	.788
647-UVP1A472MHD	UVP1A472MHD	10	4700	18 x 35.5	7.5	2.48	2.24	1.53	1.43
647-UVP1C100MDD	UVP1C100MDD	16	10	5 x 11	2.0	.18	.116	.096	.086
647-UVP1C220MDD	UVP1C220MDD	16	22	5 x 11	2.0	.22	.142	.118	.106
647-UVP1C330MDD	UVP1C330MDD	16	33	5 x 11	2.0	.19	.122	.102	.091
647-UVP1C470MED	UVP1C470MED	16	47	6.3 x 11	2.5	.22	.207	.18	.139
647-UVP1C101MPD	UVP1C101MPD	16	100	8 x 11.5	3.5	.46	.323	.209	.159
647-UVP1C221MPD	UVP1C221MPD	16	220	10 x 12.5	5.0	.45	.418	.352	.23
647-UVP1C331MPD	UVP1C331MPD	16	330	10 x 16	5.0	.45	.418	.352	.23
647-UVP1C471MPD	UVP1C471MPD	16	470	10 x 20	5.0	.54	.484	.412	.305
647-UVP1C102MHD	UVP1C102MHD	16	1000	12.5 x 25	5.0	1.06	.957	.629	.621
647-UVP1C222MHD	UVP1C222MHD	16	2200	16 x 31.5	7.5	1.73	1.58	1.08	1.01
647-UVP1C332MHD	UVP1C332MHD	16	3300	18 x 35.5	7.5	2.64	2.40	1.64	1.54
647-UVP1E100MDD	UVP1E100MDD	25	10	5 x 11	2.0	.22	.142	.118	.106
647-UVP1E220MED	UVP1E220MED	25	22	6.3 x 11	2.5	.22	.142	.118	.106
647-UVP1E330MED	UVP1E330MED	25	33	6.3 x 11	2.5	.25	.227	.198	.149
647-UVP1E470MED	UVP1E470MED	25	47	6.3 x 11	2.5	.48	.335	.217	.165
647-UVP1E101MPD	UVP1E101MPD	25	100	8 x 11.5	3.5	.56	.39	.223	.194
647-UVP1E221MPD	UVP1E221MPD	25	220	10 x 16	5.0	.54	.484	.412	.305
647-UVP1E331MHD	UVP1E331MHD	25	330	12.5 x 20	5.0	.81	.742	.632	.441
647-UVP1E471MHD	UVP1E471MHD	25	470	12.5 x 20	5.0	.98	.897	.761	.522
647-UVP1E102MHD	UVP1E102MHD	25	1000	16 x 25	7.5	1.34	1.21	.797	.784
647-UVP1E222MHD	UVP1E222MHD	25	2200	18 x 35.5	7.5	2.70	2.45	1.79	1.56
647-UVP1V470MDD	UVP1V470MDD	35	47	5 x 11	2.0	.22	.142	.118	.106
647-UVP1V100MDD	UVP1V100MDD	35	10	5 x 11	2.0	.22	.142	.118	.106

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MOUSER STOCK NO.	Nichicon Part No.	Volt (DC)	Value (µF)	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	10	100	500
647-UVP1V220MED	UVP1V220MED	35	22	6.3 x 11	2.5	.25	.227	.198	.149
647-UVP1V330MPD	UVP1V330MPD	35	33	8 x 11.5	3.5	.25	.227	.198	.149
647-UVP1V470MPD	UVP1V470MPD	35	47	8 x 11.5	3.5	.56	.39	.223	.194
647-UVP1V101MPD	UVP1V101MPD	35	100	10 x 16	5.0	.45	.418	.352	.23
647-UVP1V221MHD	UVP1V221MHD	35	220	12.5 x 20	5.0	.81	.742	.632	.441
647-UVP1V331MHD	UVP1V331MHD	35	330	12.5 x 20	5.0	.98	.897	.761	.522
647-UVP1V471MHD	UVP1V471MHD	35	470	12.5 x 25	5.0	1.06	.957	.629	.621
647-UVP1V102MHD	UVP1V102MHD	35	1000	16 x 31.5	7.5	1.73	1.57	1.08	1.01
647-UVP1HR47MDD	UVP1HR47MDD	50	0.47	5 x 11	2.0	.22	.142	.118	.106
647-UVP1H010MDD	UVP1H010MDD	50	1	5 x 11	2.0	.18	.116	.097	.087
647-UVP1H2R2MDD	UVP1H2R2MDD	50	2.2	5 x 11	2.0	.18	.115	.095	.085
647-UVP1H3R3MDD	UVP1H3R3MDD	50	3.3	5 x 11	2.0	.19	.124	.103	.092
647-UVP1H4R7MDD	UVP1H4R7MDD	50	4.7	5 x 11	2.0	.19	.121	.101	.09
647-UVP1H100MED	UVP1H100MED	50	10	6.3 x 11	2.5	.26	.243	.134	.121
647-UVP1H220MPD	UVP1H220MPD	50	22	8 x 11.5	3.5	.25	.227	.198	.149
647-UVP1H330MPD	UVP1H330MPD	50	33	8 x 11.5	3.5	.56	.39	.223	.194
647-UVP1H470MPD	UVP1H470MPD	50	47	10 x 12.5	5.0	.45	.418	.352	.23
647-UVP1H101MPD	UVP1H101MPD	50	100	10 x 20	5.0	.64	.589	.501	.35
647-UVP1H221MHD	UVP1H221MHD	50	220	12.5 x 25	5.0	.89	.805	.529	.522
647-UVP1H331MHD	UVP1H331MHD	50	330	16 x 25	7.5	1.34	1.21	.797	.784
647-UVP1H471MHD	UVP1H471MHD	50	470	16 x 31.5	7.5	1.60	1.45	.955	.939
647-UVP1J3R3MDD	UVP1J3R3MDD	63	3.3	5 x 11	2.0	.22	.142	.118	.106
647-UVP1J4R7MED	UVP1J4R7MED	63	4.7	6.3 x 1					