

NICHICON Aluminum Electrolytic Capacitors



nichicon UHE 105°C LOW IMPEDANCE, HIGH REL. SERIES

Features:

- Lead free product
- High reliability
- Long life up to 10,000 hours

Specifications:

- Operating temperature range: -40°C to +105°C
- Voltage range: 6.3VDC - 100VDC
- Capacitance range: 6.8μF to 180000μF
- Capacitance tolerance: ±20% at 120Hz, 20°C
- Leakage current: After 2 minutes of rated voltage, leakage current is not more than 0.01CV or 3(μA), whichever is greater



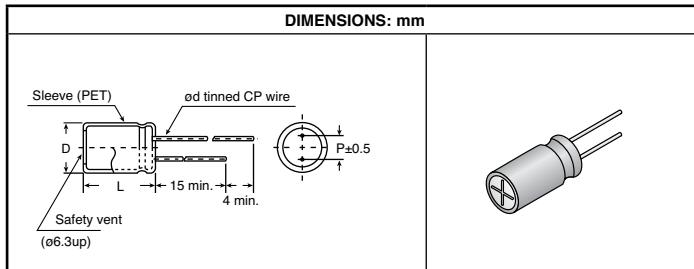
RoHS Compliant



LEAD-FREE

Application Note:

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



Endurance				
Case Size (Diameter) øD	≤5-6.3	=8, 10	≥12.5	
Rated Voltage V	6.3~10VV	4000 Hrs.	6000 Hrs.	8000 Hrs.
	16~100VV	5000 Hrs.	7000 Hrs.	10000 Hrs.

For quantities greater than listed, call for quote.

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MOUSER STOCK NO.	Value (μF)	Impedance Ω Max. @ 20°C/100kHz	Ripple (mA rms) 105°C/100 kHz	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	10	100	500
6.3 Volt									
647-UHE0J331MED	330	0.22	340	6.3 x 11	2.5	.40	.283	.141	.127
647-UHE0J681MPD	680	0.13	640	8 x 11.5	3.5	.49	.342	.226	.167
647-UHE0J102MPD	1000	0.087	840	8 x 15	3.5	.34	.24	.136	.118
647-UHE0J122MPD	1200	0.069	1050	8 x 20	3.5	.62	.436	.247	.212
647-UHE0J182MHD	1800	0.049	1450	12.5 x 15	5.0	.84	.593	.335	.29
647-UHE0J222MPD	2200	0.042	1650	10 x 25	5.0	.72	.528	.334	.287
647-UHE0J332MHD	3300	0.035	1900	12.5 x 20	5.0	.71	.649	.421	.361
647-UHE0J103MHD6	10000	0.019	3140	18 x 25	7.5	2.15	1.69	1.13	.965
10 Volt									
647-UHE1A101MDD	100	0.580	210	5 x 11	2.0	.18	.106	.084	.074
647-UHE1A221MED	220	0.220	340	6.3 x 11	2.5	.42	.292	.145	.13
647-UHE1A471MPD	470	0.130	640	8 x 11.5	3.5	.38	.265	.176	.13
647-UHE1A681MPD	680	0.087	840	8 x 15	3.5	.51	.356	.202	.176
647-UHE1A681MPD6	680	0.080	865	10 x 12.5	5.0	.51	.356	.202	.176
647-UHE1A102MPD	1000	0.069	1050	8 x 20	5.0	.67	.475	.267	.232
647-UHE1A102MPD6	1000	0.060	1210	10 x 16	5.0	.67	.475	.267	.232
647-UHE1A122MPD	1200	0.046	1400	10 x 20	5.0	.47	.431	.304	.265
647-UHE1A222MPD	2200	0.031	1910	10 x 31.5	5.0	.71	.481	.429	.368
647-UHE1A332MHD	3300	0.027	2230	12.5 x 25	5.0	1.07	.807	.527	.451
647-UHE1A472MHD	4700	0.020	2880	12.5 x 35.5	5.0	1.38	1.07	.725	.616
647-UHE1A682MHD	6800	0.017	3450	16 x 31.5	7.5	1.96	1.54	1.03	.879
647-UHE1A103MHD	10000	0.013	4080	16 x 40	7.5	2.52	2.02	1.33	1.18
16 Volt									
647-UHE1C121MED	120	0.22	340	6.3 x 11	2.5	.33	.234	.14	.105
647-UHE1C331MPD	330	0.13	640	8 x 11.5	3.5	.39	.276	.157	.136
647-UHE1C471MPD	470	0.087	840	8 x 15	3.5	.50	.356	.20	.175
647-UHE1C681MPD	680	0.069	1050	8 x 20	3.5	.42	.388	.273	.238
647-UHE1C102MPD	1000	0.046	1400	10 x 20	5.0	.64	.474	.30	.258
647-UHE1C122MPD	1200	0.042	1650	10 x 25	5.0	.98	.745	.483	.414
647-UHE1C152MPD	1500	0.031	1910	10 x 31.5	5.0	.76	.503	.458	.392
647-UHE1C222MHD	2200	0.027	2230	12.5 x 25	5.0	1.23	.938	.672	.519
647-UHE1C332MHD	3300	0.02	2880	12.5 x 35.5	5.0	1.38	1.09	.733	.621
647-UHE1C472MPD	4700	0.017	3450	16 x 31.5	7.5	1.93	1.51	1.01	.863
647-UHE1C682MHD	6800	0.013	4080	16 x 40	7.5	2.46	1.99	1.30	1.16
647-UHE1C103MHD	10000	0.012	4280	18 x 40	7.5	2.16	1.74	1.14	1.01
25 Volt									
647-UHE1E470MDD	47	0.580	210	5 x 11	2.0	.33	.234	.14	.105
647-UHE1E101MED	100	0.220	340	6.3 x 11	2.5	.30	.208	.104	.093
647-UHE1E221MPD	220	0.130	640	8 x 11.5	3.5	.45	.316	.179	.156
647-UHE1E331MPD	330	0.087	840	8 x 15	3.5	.47	.34	.189	.164
647-UHE1E471MPD	470	0.060	1210	8 x 20	3.5	.43	.396	.279	.243
647-UHE1E471MPD6	470	0.069	1050	10 x 16	5.0	.43	.396	.279	.243
647-UHE1E681MPD	680	0.046	1400	10 x 20	5.0	.54	.36	.329	.292
647-UHE1E102MPD	1000	0.031	1910	10 x 31.5	5.0	.77	.705	.461	.395
647-UHE1E102MHD3	1000	0.042	1940	16 x 15	7.5	.77	.705	.461	.395
647-UHE1E122MHD	1200	0.043	2210	18 x 15	7.5	1.12	.942	.633	.537
647-UHE1E222MHD	2200	0.020	2880	12.5 x 35.5	5.0	1.44	1.12	.757	.643
647-UHE1E332MHD	3300	0.017	3450	16 x 31.5	7.5	2.01	1.58	1.06	.901
647-UHE1E472MHD	4700	0.013	4080	16 x 40	7.5	1.89	1.49	.996	.846
35 Volt									
647-UHE1V330MDD	33	0.580	210	5 x 11	2.0	.32	.226	.135	.101
647-UHE1V151MPD	150	0.130	640	8 x 11.5	3.5	.49	.341	.17	.152
647-UHE1V221MPD	220	0.087	840	8 x 15	3.5	.53	.37	.209	.182
647-UHE1V331MPD	330	0.060	1210	10 x 16	5.0	.44	.405	.285	.249

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						1	10	100	500
35 Volt (Cont.)									
647-UHE1V471MPD	470	0.046	1400	10 x 20	5.0	.50	.334	.305	.271
647-UHE1V681MPD	680	0.031	1910	10 x 31.5	5.0	.76	.693	.453	.388
647-UHE1V102MHD	1000	0.027	2230	12.5 x 25	5.0	1.26	.958	.686	.53
647-UHE1V122MHD	1200	0.024	2650	12.5 x 31.5	5.0	1.23	.964	.647	.55
647-UHE1V182MHD	1800	0.017	3350	12.5 x 40	5.0	1.69	1.33	.892	.758
647-UHE1V222MHD	2200	0.017	3450	16 x 31.5	7.5	2.18	1.71	1.14	.975
647-UHE1V332MHD	3300	0.013	4080	16 x 40	7.5	2.54	2.05	1.34	1.19
50 Volt									
647-UHE1H220MDD	22	0.700	180	5 x 11	2.0	.30	.217	.13	.097
647-UHE1H560MED	56	0.300	295	6.3 x 11	2.5	.43	.302	.151	.135
647-UHE1H101MPD	100	0.170	555	8 x 11.5	3.5	.51	.355	.201	.175
647-UHE1H121MPD	120	0.120	730	8 x 15	3.5	.49	.343	.197	.171
647-UHE1H151MPD	150	0.120	760	10 x 12.5	5.0	.54	.377	.217	.188
647-UHE1H221MPD	220	0.084	1050	10 x 16	5.0	.59	.414	.235	.205
647-UHE1H331MPD	330	0.055	1440	10 x 25	5.0	.78	.57	.363	.313
647-UHE1H471MPD	470	0.043	1690	10 x 31.5	5.0	1.05	.803	.518	.443
647-UHE1H471MHD3	470	0.055	1690	16 x 15	7.5	1.05	.803	.518	.443
647-UHE1H681MHD	680	0.030	2310	12.5 x 31.5	5.0	1.08	.919	.612	.52
647-UHE1H102MHD	1000	0.021	2920	12.5 x 40	5.0	1.72	1.35	.906	.769
647-UHE1H102MHD3	1000	0.036	2490	18 x 20	7.5	1.72	1.35	.906	.769
647-UHE1H122MHD	1200	0.022	3010	16 x 31.5	7.5	1.90	1.49	1.00	.851
647-UHE1H222MHD6	2200	0.017	3680	18 x 35.5	7.5	3.52	2.87	1.84	1.67
63 Volt									
647-UHE1J150MDD	15	2.300	55	5 x 11	2.0	.23	.146	.121	.109
647-UHE1J330MED	33	1.200	115	6.3 x 11	2.5	.40	.279	.139	.125
647-UHE1J820MPD	82	0.450	300	8 x 15	3.5	.57	.40	.23	.20
647-UHE1J121MPD	120	0.330	362	8 x 20	3.5	.70	.491	.279	.243
647-UHE1J181MPD	180	0.210	466	10 x 20	5.0	.57	.383	.35	.311
647-UHE1J221MPD	220	0.200	531	10 x 25	5.0	.78	.575	.366	.315
647-UHE1J271MPD	270	0.150	663	10 x 31.5	5.0	.77	.701	.504	.39
647-UHE1J331MHD	330	0.120	784	12.5 x 25	5.0	1.07	.814	.525	.45
647-UHE1J471MHD	470	0.100	905	12.5 x 31.5	5.0	1.16	.889	.573	.491
647-UHE1J681MHD	680	0.071	1180	12.5 x 40	5.0	1.31	1.03	.691	.587
647-UHE1J821MHD	820	0.054	1570	16 x 31.5	7.5	1.72	1.35	.906	.77
647-UHE1J102MHD	1000	0.045	1790	16 x 35.5	7.5	1.91	1.50	1.00	.854
647-UHE1J102MHD6	1000	0.047	1630	18 x 31.5	7.5	1.91	1.50	1.00	.854
647-UHE1J122MHD	1200	0.040	2020	16 x 40	7.5	2.27	1.78	1.19	1.01
100 Volt									
647-UHE2A68R8MDD	6.8	2.300	55	5 x 11	2.0	.23	.146	.121	.109
647-UHE2A150MED	15	1.200	115	6.3 x 11	2.5	.45	.316	.157	.141
647-UHE2A390MPD	39	0.450	300	8 x 15	3.5	.56	.384	.233	.175
647-UHE2A470MPD	47	0.430	288	10 x 12.5	5.0	.65	.445	.271	.202
647-UHE2A680MPD	68	0.310	357	10 x 16	5.0	.57	.40	.23	.20
647-UHE2A820MPD	82	0.210	466	10 x 20	5.0	.69	.478	.275	.239
647-UHE2A101MPD	100	0.200	531	10 x 25	5.0	.72	.502	.287	.247
647-UHE2A121MPD	120	0.150	663	10 x 31.5	5.0	.97	.676	.384	.324
647-UHE2A181M									