

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: 6.3 - 100Vdc
- Capacitance range: 6.8 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

Application Note:

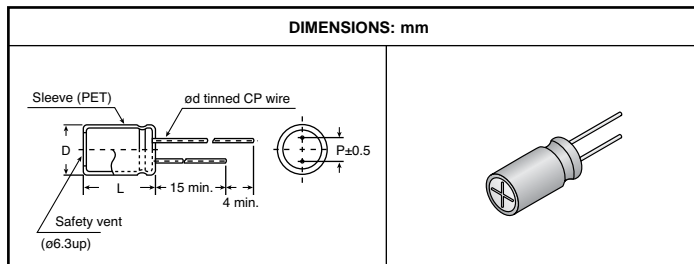
- A higher voltage capacitor may be used in a lower voltage application



RoHS Compliant



LEAD-FREE



Endurance:

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

For quantities of 1000 and up, 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				
647-UHE0J681MPD	680	0.13	640	8 x 11.5	3.5				
647-UHE0J102MPD	1000	0.087	840	8 x 15	3.5				
647-UHE0J122MPD	1200	0.069	1050	8 x 20	3.5				
647-UHE0J182MHD	1800	0.049	1450	12.5 x 15	5.0				
647-UHE0J222MPD	2200	0.042	1650	10 x 25	5.0				
647-UHE0J332MHD	3300	0.035	1900	12.5 x 20	5.0				
647-UHE0J103MHD6	10000	0.019	3140	18 x 25	7.5				
10 Volt									
647-UHE1A101MDD	100	0.580	210	5 x 11	2.0				
647-UHE1A221MED	220	0.220	340	6.3 x 11	2.5				
647-UHE1A471MPD	470	0.130	640	8 x 11.5	3.5				
647-UHE1A681MPD	680	0.087	840	8 x 15	3.5				
647-UHE1A681MPD6	680	0.080	865	10 x 12.5	5.0				
647-UHE1A102MPD	1000	0.069	1050	8 x 20	5.0				
647-UHE1A102MPD6	1000	0.060	1210	10 x 16	5.0				
647-UHE1A122MPD	1200	0.046	1400	10 x 20	5.0				
647-UHE1A222MPD	2200	0.031	1910	10 x 31.5	5.0				
647-UHE1A332MHD	3300	0.027	2230	12.5 x 25	5.0				
647-UHE1A472MHD	4700	0.020	2880	12.5 x 35.5	5.0				
647-UHE1A682MHD	6800	0.017	3450	16 x 31.5	7.5				
647-UHE1A103MHD	10000	0.013	4080	16 x 40	7.5				
16 Volt									
647-UHE1C121MED	120	0.22	340	6.3 x 11	2.5				
647-UHE1C331MPD	330	0.13	640	8 x 11.5	3.5				
647-UHE1C471MPD	470	0.087	840	8 x 15	3.5				
647-UHE1C681MPD	680	0.069	1050	8 x 20	3.5				
647-UHE1C102MPD	1000	0.046	1400	10 x 20	5.0				
647-UHE1C122MPD	1200	0.042	1650	10 x 25	5.0				
647-UHE1C152MPD	1500	0.031	1910	10 x 31.5	5.0				
647-UHE1C222MHD	2200	0.027	2230	12.5 x 25	5.0				
647-UHE1C332MHD	3300	0.02	2880	12.5 x 35.5	5.0				
647-UHE1C472MHD	4700	0.017	3450	16 x 31.5	7.5				
647-UHE1C682MHD	6800	0.013	4080	16 x 40	7.5				
647-UHE1C103MHD	10000	0.012	4280	18 x 40	7.5				
25 Volt									
647-UHE1E470MDD	47	0.580	210	5 x 11	2.0				
647-UHE1E101MED	100	0.220	340	6.3 x 11	2.5				
647-UHE1E221MPD	220	0.130	640	8 x 11.5	3.5				
647-UHE1E331MPD	330	0.087	840	8 x 15	3.5				
647-UHE1E471MPD	470	0.060	1210	8 x 20	3.5				
647-UHE1E471MPD6	470	0.069	1050	10 x 16	5.0				
647-UHE1E681MPD	680	0.046	1400	10 x 20	5.0				
647-UHE1E102MPD	1000	0.031	1910	10 x 31.5	5.0				
647-UHE1E102MHD3	1000	0.042	1940	16 x 15	7.5				
647-UHE1E122MHD	1200	0.043	2210	18 x 15	7.5				
647-UHE1E222MHD	2200	0.020	2880	12.5 x 35.5	5.0				
647-UHE1E332MHD	3300	0.017	3450	16 x 31.5	7.5				
647-UHE1E472MHD	4700	0.013	4080	16 x 40	7.5				
35 Volt									
647-UHE1V330MDD	33	0.580	210	5 x 11	2.0				
647-UHE1V151MPD	150	0.130	640	8 x 11.5	3.5				
647-UHE1V221MPD	220	0.087	840	8 x 15	3.5				
647-UHE1V331MPD	330	0.060	1210	10 x 16	5.0				

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
35 Volt (Cont.)									
647-UHE1V471MPD	470	0.046	1400	10 x 20	5.0				
647-UHE1V681MPD	680	0.031	1910	10 x 31.5	5.0				
647-UHE1V102MHD	1000	0.027	2230	12.5 x 25	5.0				
647-UHE1V122MHD	1200	0.024	2650	12.5 x 31.5	5.0				
647-UHE1V182MHD	1800	0.017	3350	12.5 x 40	5.0				
647-UHE1V222MHD	2200	0.017	3450	16 x 31.5	7.5				
647-UHE1V332MHD	3300	0.013	4080	16 x 40	7.5				
50 Volt									
647-UHE1H220MDD	22	0.700	180	5 x 11	2.0				
647-UHE1H560MED	56	0.300	295	6.3 x 11	2.5				
647-UHE1H101MPD	100	0.170	555	8 x 11.5	3.5				
647-UHE1H121MPD	120	0.120	730	8 x 15	3.5				
647-UHE1H151MPD	150	0.120	760	10 x 12.5	5.0				
647-UHE1H221MPD	220	0.084	1050	10 x 16	5.0				
647-UHE1H331MPD	330	0.055	1440	10 x 25	5.0				
647-UHE1H471MPD	470	0.043	1690	10 x 31.5	5.0				
647-UHE1H471MHD3	470	0.055	1690	16 x 15	7.5				
647-UHE1H681MHD	680	0.030	2310	12.5 x 31.5	5.0				
647-UHE1H102MHD	1000	0.021	2920	12.5 x 40	5.0				
647-UHE1H102MHD3	1000	0.036	2490	18 x 20	7.5				
647-UHE1H122MHD	1200	0.022	3010	16 x 31.5	7.5				
647-UHE1H222MHD6	2200	0.017	3680	18 x 35.5	7.5				
63 Volt									
647-UHE1J150MDD	15	2.300	55	5 x 11	2.0				
647-UHE1J330MED	33	1.200	115	6.3 x 11	2.5				
647-UHE1J820MPD	82	0.450	300	8 x 15	3.5				
647-UHE1J121MPD	120	0.330	362	8 x 20	3.5				
647-UHE1J181MPD	180	0.210	466	10 x 20	5.0				
647-UHE1J221MPD	220	0.200	531	10 x 25	5.0				
647-UHE1J271MPD	270	0.150	663	10 x 31.5	5.0				
647-UHE1J331MHD	330	0.120	784	12.5 x 25	5.0				
647-UHE1J471MHD	470	0.100	905	12.5 x 31.5	5.0				
647-UHE1J681MHD	680	0.071	1180	12.5 x 40	5.0				
647-UHE1J821MHD	820	0.054	1570	16 x 31.5	7.5				
647-UHE1J102MHD	1000	0.045	1790	16 x 35.5	7.5				
647-UHE1J102MHD6	1000	0.047	1630	18 x 31.5	7.5				
647-UHE1J122MHD	1200	0.040	2020	16 x 40	7.5				
100 Volt									
647-UHE2A6R8MDD	6.8	2.300	55	5 x 11	2.0				
647-UHE2A150MED	15	1.200	115	6.3 x 11	2.5				
647-UHE2A390MPD	39	0.450	300	8 x 15	3.5				
647-UHE2A470MPD	47	0.430	288	10 x 12.5	5.0				
647-UHE2A680MPD	68	0.310	357	10 x 16	5.0				
647-UHE2A820MPD	82	0.210	466	10 x 20	5.0				
647-UHE2A101MPD	100	0.200	531	10 x 25	5.0				
647-UHE2A121MPD	120	0.150	663	10 x 31.5	5.0				
647-UHE2A181MHD	180	0.120	784	12.5 x 25	5.0				
647-UHE2A221MHD	220	0.100	905	12.5 x 31.5	5.0				
647-UHE2A331MHD	330	0.071	1180	12.5 x 40	5.0				
647-UHE2A391MHD	390	0.054	1570	16 x 31.5	7.5				
647-UHE2A471MHD	470	0.045	1790	16 x 35.5	7.5				
647-UHE2A561MHD	560	0.040	2020	16 x 40	7.5				
647-UHE2A681MHD	680	0.040	1790	18 x 35.5	7.5				
647-UHE2A821MHD	820	0.036	2330	18 x 40	7.5				