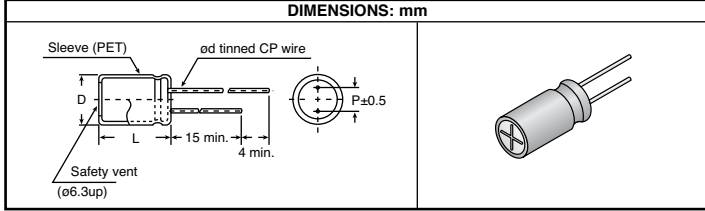


NICHICON Aluminum Electrolytic Capacitors



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



Features:

- Low impedance and high reliability
- Endurance: 2000 hours: øD 5-6.3
3000 hours: øD 8
5000 hours: øD 10
7000 hours: øD 12.5
8000 hours: øD 16-18

Specifications:

- Operating temperature range: -55°C ~ +105°C (6.3 ~ 100V)
- Voltage range: 6.3 ~ 450V
- Capacitance range: 0.47 ~ 15000µF
- Capacitance tolerance: ±20% at 120Hz, 20°C



Application note:

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

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Value (µF)	Impedance Ω Max. @ 20°C/100kHz	Ripple (mA rms) 105°C /100kHz	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	25	100	500
6.3 Volt									
647-UPW0J221MED	220	0.25	290	6.3 x 11	2.5				
647-UPW0J331MED	330	0.25	290	6.3 x 11	2.5				
647-UPW0J821MPD	820	0.085	730	8 x 15	3.5				
647-UPW0J102MPD	1000	0.090	755	10 x 12.5	5.0				
647-UPW0J122MPD	1200	0.065	995	8 x 20	3.5				
647-UPW0J122MPD6	1200	0.068	1050	10 x 16	5.0				
647-UPW0J152MPD	1500	0.052	1220	10 x 20	5.0				
647-UPW0J222MPD6	2200	0.045	1440	10 x 25	5.0				
647-UPW0J332MHD	3300	0.038	1655	12.5 x 20	5.0				
647-UPW0J392MHD	3900	0.030	1945	12.5 x 25	5.0				
647-UPW0J472MHD	4700	0.022	2555	16 x 25	7.5				
647-UPW0J472MHD6	4700	0.025	2310	12.5 x 31.5	5.0				
647-UPW0J562MHD	5600	0.022	2510	12.5 x 35.5	5.0				
647-UPW0J682MHD	6800	0.022	2555	16 x 25	7.5				
647-UPW0J103MHD	10000	0.016	3150	16 x 31.5	7.5				
647-UPW0J103MHD6	10000	0.020	2740	18 x 25	7.5				
647-UPW0J153MHD	15000	0.015	3680	18 x 35.5	7.5				

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Value (µF)	Impedance Ω Max. @ 20°C/100kHz	Ripple (mA rms) 105°C /100kHz	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	25	100	500
25 Volt (cont.)									
647-UPW1E472MHD	4700	0.015	3680	18 x 35.5	7.5				
35 Volt									
647-UPW1V330MDD	33	0.60	180	5 x 11	2.0				
647-UPW1V390MDD	39	0.50	235	5 x 15	2.0				
647-UPW1V820MED	82	0.23	430	6.3 x 15	2.5				
647-UPW1V151MPD	150	0.117	555	8 x 11.5	3.5				
647-UPW1V221MPD	220	0.090	755	10 x 12.5	5.0				
647-UPW1V221MPD6	220	0.085	730	8 x 15	3.5				
647-UPW1V331MPD	330	0.068	1050	10 x 16	5.0				
647-UPW1V331MPD6	330	0.065	995	8 x 20	3.5				
647-UPW1V391MPD	390	0.052	1220	10 x 20	5.0				
647-UPW1V471MPD	470	0.052	1220	10 x 20	5.0				
647-UPW1V681MHD	680	0.038	1655	12.5 x 20	5.0				
647-UPW1V102MHD	1000	0.030	1945	12.5 x 25	5.0				
647-UPW1V122MHD	1200	0.025	2310	12.5 x 31.5	5.0				
647-UPW1V152MHD	1500	0.022	2555	16 x 25	7.5				
647-UPW1V152MHD6	1500	0.022	2510	12.5 x 35.5	5.0				
647-UPW1V222MHD	2200	0.018	3010	16 x 31.5	7.5				
647-UPW1V222MHD6	2200	0.020	2740	18 x 25	7.5				
647-UPW1V332MHD	3300	0.015	3680	18 x 35.5	7.5				

MOUSER STOCK NO.	Value (µF)	Impedance Ω Max. @ 20°C/100kHz	Ripple (mA rms) 105°C /100kHz	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	25	100	500
50 Volt									
647-UPW1H010MDD	1.0	3.50	40	5 x 11	2.0				
647-UPW1H2R2MDD	2.2	3.00	55	5 x 11	2.0				
647-UPW1H3R3MDD	3.3	2.60	65	5 x 11	2.0				
647-UPW1H4R7MDD	4.7	2.30	90	5 x 11	2.0				
647-UPW1H100MDD	10	1.40	120	5 x 11	2.0				
647-UPW1H220MDD	22	1.20	170	5 x 11	2.0				
647-UPW1H270MDD	27	0.90	215	5 x 15	2.0				
647-UPW1H330MED	33	0.43	300	6.3 x 11	2.5				
647-UPW1H470MED	47	0.43	300	6.3 x 11	2.5				
647-UPW1H560MED	56	0.40	360	6.3 x 15	2.5				
647-UPW1H101MPD	100	0.234	485	8 x 11.5	3.5				
647-UPW1H181MPD	180	0.120	860	8 x 20	3.5				
647-UPW1H331MPD	330	0.090	1030	10 x 20	5.0				
647-UPW1H471MHD	470	0.060	1500	12.5 x 20	5.0				
647-UPW1H561MHD	560	0.050	1832	12.5 x 25	5.0				
647-UPW1H681MHD	680	0.050	1832	12.5 x 25	5.0				
647-UPW1H681MHD6	680	0.048	1835	16 x 20	7.5				
647-UPW1H821MHD	820	0.034	2285	12.5 x 35.5	5.0				
647-UPW1H102MHD	1000	0.034	2235	16 x 25	7.5				
647-UPW1H152MHD	1500	0.028	2700	16 x 31.5	7.5				
647-UPW1H222MHD	2200	0.023	3100	18 x 35.5	7.5				

MOUSER STOCK NO.	Value (µF)	Impedance Ω Max. @ 20°C/100kHz	Ripple (mA rms) 105°C /100kHz	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	25	100	500
10 Volt									
647-UPW1A220MDD	22	0.60	180	5 x 11	2.0				
647-UPW1A820MDD	82	0.60	180	5 x 11	2.0				
647-UPW1A101MDD	100	0.60	180	5 x 11	2.0				
647-UPW1A221MED	220	0.25	290	6.3 x 11	2.5				
647-UPW1A471MPD	470	0.117	555	8 x 11.5	3.5				
647-UPW1A681MPD	680	0.09	755	10 x 12.5	5.0				
647-UPW1A681MPD6	680	0.085	730	8 x 15	3.5				
647-UPW1A102MPD	1000	0.068	1050	10 x 16	5.0				
647-UPW1A102MPD6	1000	0.065	995	8 x 20	3.5				
647-UPW1A122MPD	1200	0.052	1220	10 x 20	5.0				
647-UPW1A152MPD6	1500	0.045	1440	10 x 25	5.0				
647-UPW1A222MHD	2200	0.038	1655	12.5 x 20	5.0				
647-UPW1A272MHD	2700	0.030	1945	12.5 x 25	5.0				
647-UPW1A332MHD	3300	0.030	1945	12.5 x 25	5.0				
647-UPW1A332MHD6	3300	0.025	2310	12.5 x 31.5	5.0				
647-UPW1A392MHD	3900	0.022	2510	12.5 x 35.5	5.0				
647-UPW1A472MHD	4700	0.022	2555	16 x 25	7.5				
647-UPW1A562MHD6	5600	0.028	2490	18 x 20	7.5				
647-UPW1A682MHD	6800	0.018	3010	16 x 31.5	7.5				
647-UPW1A682MHD6	6800	0.020	2740	18 x 25	7.5				
647-UPW1A103MHD	10000	0.015	3680	18 x 35.5	7.5				

MOUSER STOCK NO.	Value (µF)	Impedance Ω Max. @ 20°C/100kHz	Ripple (mA rms) 105°C /100kHz	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	25	100	500
16 Volt									
647-UPW1C820MDD	82	0.50	235	5 x 15	2.0				
647-UPW1C121MED	120	0.25	290	6.3 x 11	2.5				
647-UPW1C181MED	180	0.23	430	6.3 x 15	2.5				
647-UPW1C331MPD	330	0.117	555	8 x 11.5	3.5				
647-UPW1C471MPD	470	0.090	755	10 x 12.5	5.0				
647-UPW1C471MPD6	470	0.085	730	8 x 15	3.5				
647-UPW1C681MPD	680	0.068	1050	10 x 16	5.0				
647-UPW1C681MPD6	680	0.065	995	8 x 20	3.5				
647-UPW1C821MPD	820	0.052	1220	10 x 20	5.0				
647-UPW1C102MPD	1000	0.052	1220	10 x 20	5.0				
647-UPW1C152MHD	1500	0.038	1655	12.5 x 20	5.0				
647-UPW1C152MPD6	1500	0.035	1815	10 x 31.5	5.0				
647-UPW1C222MHD	2200	0.030	1945	12.5 x 25	5.0				
647-UPW1C272MHD	2700	0.025	2310	12.5 x 31.5	5.0				
647-UPW1C332MHD	3300	0.022	2555	16 x 25	7.5				
647-UPW1C332MHD6	3300	0.022	2510	12.5 x 35.5	5.0				
647-UPW1C392MHD	3900	0.022	2555	16 x 25	7.5				
647-UPW1C472MHD	4700	0.018	3010	16 x 31.5	7.5				
647-UPW1C472MHD6	4700	0.020	2740	18 x 25	7.5				
647-UPW1C562MHD	5600	0.016	3150	16 x 35.5	7.5				
647-UPW1C822MHD	8200	0.015	3680	18 x 35.5	7.5				

MOUSER STOCK NO.	Value (µF)	Impedance Ω Max. @ 20°C/100kHz	Ripple (mA rms) 105°C /100kHz	Case Size D x L (mm) Max.	LS (mm)	Price Each			
						1	25	100	500
25 Volt									
647-UPW1E470MDD	47	0.60	180	5 x 11	2.0				
647-UPW1E560MDD	56	0.50	235	5 x 15	2.0				
647-UPW1E101MED	100	0.250	290	6.3 x 11	2.5				
647-UPW1E121MED	120	0.230	430	6.3 x 15	2.5				
647-UPW1E221MPD	220	0.117	555	8 x 11.5	3.5				
647-UPW1E331MPD	330	0.090	755	10 x 12.5	5.0				
647-UPW1E331MPD6	330	0.085	730	8 x 15	3.5				
647-UPW1E471MPD	470	0.068	1050	10 x 16	5.0				
647-UPW1E471MPD6	470	0.065	995	8 x 20	3.5				
647-UPW1E561MPD	560	0.052	1220	10 x 20	5.0				
647-UPW1E681MPD	680	0.052	1220	10 x 20	5.0				
647-UPW1E102MHD	1000	0.038	1655	12.5 x 20	5.0				
647-UPW1E152MHD	1500	0.022	2555	16 x 25	7.5				
647-UPW1E152MHD6	1500	0.030	1945	12.5 x 25	5.0				
647-UPW1E182MHD	1800	0.025	2310	12.5 x 31.5	7.5				
647-UPW1E222MHD6	2200	0.028	2490	18 x 20	7.5				
647-UPW1E222MHD3	2200	0.022	2510	12.5 x 35.5	7.5				
647-UPW1E272MHD	2700	0.022	2555	16 x 25	7.5				
647-UPW1E									