

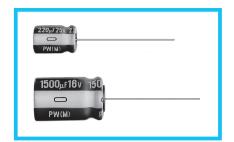
Miniature Sized, Low Impedance, High Reliability For **Switching Power Supplies**



- Smaller case size and lower impedance than UPM.
- Low impedance and high reliability withstanding 3000 hours to 8000 hours.
- Capacitance ranges available based on the numerical values in E12 series
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 Qualified. Please contact us for details.



UPM

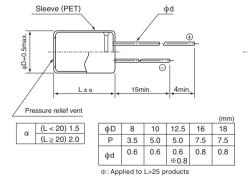


Specifications

Item	Performance Characteristics												
Category Temperature Range	−55 to +105°C												
Rated Voltage Range	6.3 to 100V												
Rated Capacitance Range	15 to 15000μF												
Capacitance Tolerance	±20% at 120Hz, 2	0°C											
Leakage Current *	After 1 minute's appli	cation of	rated voltag	e at 20°C, I	eakage cur	rent is not	more than	0.03CV(µ	A).				
	For capacitance of m	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. Measurement frequency : 120Hz at 20°C											
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	25	35	50	63	100				
	tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08				
		120Hz											
Stability at Low Temperature	Rated voltage (V) Impedance ratio (max.) Z(-55°C) / Z(+20°C)				6.3 · 10	16 · 25	35 · 50 3	63 · 10	0				
	impedance rail	(IIIax.)	2(-,	33 0) / 2(+2	.0 0)	- 0			, 3				
	The specifications	listed b	elow shal	l be met v	when the			φD(mm)			1		
	capacitors are restored to 20°C after D.C. bias plus rated				Rated Voltage			φ8	φ10	φ12.5	≧φ16		
	ripple current is applied at 105°C for the condition listed at right. The peak voltage shall not exceed the rated voltage.					6.3~100V 3000hrs.			5000hrs.	7000hrs.	8000hrs.		
Endurance	right. The peak voita	ye shali i	ioi exceeu	ine rateu v	ollage.								
	Capacitance change	Capacitance change Within ±20% of the initial capacitance value											
	tan δ	200% (or less than	the initial s	pecified val	ue							
	Leakage current	Less th	an or equal	to the initia	I specified	value							
Shelf Life	After storing the ca clause 4.1 at 20°C,										t based	on JIS C	5101-4
Marking	Printed with white of	color lette	r on dark l	orown slee	ve.								

 $\ \, \ \, \hbox{$\%$ I : Leakage Current (μA), $C:$ Rated Capacitance (μF), $V:$ Rated Voltage (V)}$

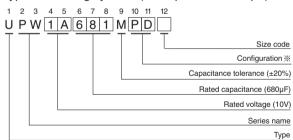
■Radial Lead Type



- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.
- Frequency coefficient of rated ripple current

Cap. (µF) Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
15 to 47	0.20	0.30	0.50	0.80	1.00
68 to 330	0.55	0.65	0.75	0.85	1.00
390 to 1000	0.70	0.75	0.80	0.90	1.00
1200 to 15000	0.80	0.85	0.90	0.95	1.00

Type numbering system (Example: 10V 680µF)



Configuration	n
φD	Pb-free leadwire Pb-free PET sleeve
8 · 10	PD
12.5 to 18	HD

■ Dimensions

Rated Voltage (V)	Rated Capacitance	Case Size	tan δ	Leakage Current (µA)	. ma	nce(Ω) ax.	Rated Ripple (mArms)	Part Number
(code)	(μF)	φD×L(mm)	tano	(at 20°C after) 1 minute	20℃/ 100kHz	-10°C/ 100kHz	(105°C/100kHz)	ranvamoer
	470	8×11.5	0.22	88.83	0.117	0.234	555	UPW0J471MPD
	560	8×11.5	0.22	105.84	0.117	0.234	555	UPW0J561MPD
	680	10×12.5	0.22	128.52	0.090	0.18	755	UPW0J681MPD
	820	8×15	0.22	154.98	0.085	0.17	730	UPW0J821MPD
	820	10×12.5	0.22	154.98	0.090	0.18	755	UPW0J821MPD6
	1000	10×12.5	0.22	189	0.090	0.18	755	UPW0J102MPD
Ī	1200	8×20	0.22	226.8	0.065	0.13	995	UPW0J122MPD
İ	1200	10×16	0.22	226.8	0.068	0.136	1050	UPW0J122MPD
	1500	10×20	0.22	283.5	0.052	0.104	1220	UPW0J152MPD
	2200	12.5×20	0.24	415.8	0.038	0.076	1655	UPW0J222MHD
ŀ	2200	10×25	0.24	415.8	0.045	0.090	1440	UPW0J222MPD6
F	2700	10×30.5	0.24	510.3	0.035	0.070	1815	UPW0J272MPD
6.3	3300	12.5×20	0.26	623.7	0.038	0.076	1655	UPW0J332MHD
(0J)	3900	12.5×25	0.26	737.1	0.030	0.060	1945	UPW0J392MHD
-			+					
-	4700	16×25	0.28	888.3	0.022	0.044	2555	UPW0J472MHD
-	4700	12.5×30.5	0.28	888.3	0.025	0.050	2310	UPW0J472MHD
-	5600	12.5×35.5	0.30	1058.4	0.022	0.044	2510	UPW0J562MHD
-	5600	16×20	0.30	1058.4	0.029	0.058	2210	UPW0J562MHD
	6800	16×25	0.32	1285.2	0.022	0.044	2560	UPW0J682MHD
	6800	18×20	0.32	1285.2	0.028	0.056	2490	UPW0J682MHD
	8200	16×30.5	0.36	1549.8	0.018	0.036	3010	UPW0J822MHD
	10000	16×30.5	0.40	1890	0.016	0.032	3150	UPW0J103MHD
	10000	18×25	0.40	1890	0.020	0.040	2740	UPW0J103MHD
	12000	18×30.5	0.44	2268	0.016	0.032	3635	UPW0J123MHD
	15000	18×35.5	0.50	2835	0.015	0.030	3680	UPW0J153MHD
	330	8×11.5	0.19	99	0.117	0.234	555	UPW1A331MPD
	470	8×11.5	0.19	141	0.117	0.234	555	UPW1A471MPD
	680	10×12.5	0.19	204	0.090	0.18	760	UPW1A681MPD
	680	8×15	0.19	204	0.085	0.17	730	UPW1A681MPD
Ī	1000	10×16	0.19	300	0.068	0.136	1050	UPW1A102MPD
İ	1000	8×20	0.19	300	0.065	0.13	995	UPW1A102MPD
	1200	10×20	0.19	360	0.052	0.104	1220	UPW1A122MPD
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ŀ	1500	10×25	0.19	450	0.045	0.090	1440	UPW1A152MPD
}	2200	12.5×20	0.21	660	0.038	0.076	1655	UPW1A222MHD
}	2200	10×30.5	0.21	660	0.035	0.070	1815	UPW1A222MPD
}	2700	12.5×25	0.21	810	0.030	0.060	1945	UPW1A272MHD
10	3300	12.5×25	0.23	990	0.030	0.060	1950	UPW1A332MHD
(1A)	3300	12.5×25	0.23	990	0.030	0.050	2310	UPW1A332MHD
-			+					
}	3900	12.5×35.5	0.23	1170	0.022	0.044	2510	UPW1A392MHD
-	3900	16×20	0.23	1170	0.029	0.058	2210	UPW1A392MHD
}	4700	16×25	0.25	1410	0.022	0.044	2555	UPW1A472MHD
-	5600	16×25	0.27	1680	0.022	0.044	2560	UPW1A562MHD
-	5600	18×20	0.27	1680	0.028	0.056	2490	UPW1A562MHD
	6800	16×30.5	0.29	2040	0.018	0.036	3010	UPW1A682MHD
	6800	18×25	0.29	2040	0.020	0.040	2740	UPW1A682MHD
	8200	16×35.5	0.33	2460	0.016	0.032	3150	UPW1A822MHD
	8200	18×30.5	0.33	2460	0.016	0.032	3635	UPW1A822MHD
	10000	18×35.5	0.37	3000	0.015	0.030	3680	UPW1A103MHD
	15000	18×40	0.47	4500	0.014	0.028	3800	UPW1A153MHD

■ Dimensions

Rated Voltage (V)	Rated Capacitance	Case Size	tan δ	Leakage Current (µA)	Impedance(Ω) max.		Rated Ripple (mArms)	Part Number
(code)	(μF)	φD×L(mm)	tano	(at 20°C after) 1 minute	20℃/ 100kHz	-10°C/ 100kHz	(105°C/100kHz)	i ait Number
	220	8×11.5	0.16	105.6	0.117	0.234	555	UPW1C221MPD
	330	8×11.5	0.16	158.4	0.117	0.234	555	UPW1C331MPD
	470	10×12.5	0.16	225.6	0.090	0.18	760	UPW1C471MPD
	470	8×15	0.16	225.6	0.085	0.17	730	UPW1C471MPD6
	680	10×16	0.16	326.4	0.068	0.136	1050	UPW1C681MPD
	680	8×20	0.16	326.4	0.065	0.13	995	UPW1C681MPD6
	820	10×20	0.16	393.6	0.052	0.104	1220	UPW1C821MPD
	1000	10×20	0.16	480	0.052	0.104	1220	UPW1C102MPD
	1200	10×25	0.16	576	0.045	0.090	1440	UPW1C122MPD
	1500	12.5×20	0.16	720	0.038	0.076	1655	UPW1C152MHD
	1500	10×30.5	0.16	720	0.035	0.070	1815	UPW1C152MPD6
	2200	12.5×25	0.18	1056	0.030	0.060	1945	UPW1C222MHD
16	2700	12.5×30.5	0.18	1296	0.025	0.050	2310	UPW1C272MHD
(1C)	2700	16×20	0.18	1296	0.029	0.058	2210	UPW1C272MHD6
	3300	16×25	0.20	1584	0.022	0.044	2555	UPW1C332MHD
	3300	12.5×35.5	0.20	1584	0.022	0.044	2510	UPW1C332MHD6
	3900	16×25	0.20	1872	0.022	0.044	2560	UPW1C392MHD
-	3900	18×20	0.20	1872	0.028	0.056	2490	UPW1C392MHD6
-	4700	16×30.5	0.22	2256	0.028	0.036	3010	UPW1C472MHD
-	4700	18×25	0.22	2256	0.020	0.040	2740	UPW1C472MHD6
-	5600	16×35.5	0.24	2688	0.020	0.040	3150	UPW1C562MHD
-	5600	18×30.5	0.24	2688	0.016	0.032	3635	UPW1C562MHD6
-	6800	18×35.5	0.24	3264	0.015	0.032	3680	
-	8200			_				UPW1C682MHD
-		18×35.5	0.30	3936	0.015	0.030	3680	UPW1C822MHD
	10000	18×40	0.34	4800	0.014	0.028	3800	UPW1C103MHD
-	150	8×11.5	0.14	112.5	0.117	0.234	555	UPW1E151MPD
-	220	8×11.5	0.14	165	0.117	0.234	555	UPW1E221MPD
-	330	10×12.5	0.14	247.5	0.090	0.18	760	UPW1E331MPD
-	330	8×15	0.14	247.5	0.085	0.17	730	UPW1E331MPD6
-	470	10×16	0.14	352.5	0.068	0.136	1050	UPW1E471MPD
-	470	8×20	0.14	352.5	0.065	0.13	995	UPW1E471MPD6
	560	10×20	0.14	420	0.052	0.104	1220	UPW1E561MPD
-	680	10×20	0.14	510	0.052	0.104	1220	UPW1E681MPD
	820	10×25	0.14	615	0.045	0.090	1440	UPW1E821MPD
	1000	12.5×20	0.14	750	0.038	0.076	1660	UPW1E102MHD
	1000	10×30.5	0.14	750	0.035	0.070	1815	UPW1E102MPD6
25	1500	16×25	0.14	1125	0.022	0.044	2555	UPW1E152MHD
(1E)	1500	12.5×25	0.14	1125	0.030	0.060	1950	UPW1E152MHD6
	1800	12.5×30.5	0.14	1350	0.025	0.050	2310	UPW1E182MHD
	1800	16×20	0.14	1350	0.029	0.058	2210	UPW1E182MHD6
	2200	16×25	0.16	1650	0.022	0.044	2555	UPW1E222MHD
	2200	18×20	0.16	1650	0.028	0.056	2490	UPW1E222MHD6
	2200	12.5×35.5	0.16	1650	0.022	0.044	2510	UPW1E222MHD3
	2700	16×25	0.16	2025	0.022	0.044	2555	UPW1E272MHD
	3300	16×30.5	0.18	2475	0.018	0.036	3010	UPW1E332MHD
	3300	18×25	0.18	2475	0.020	0.040	2740	UPW1E332MHD6
	3900	16×35.5	0.18	2925	0.016	0.032	3150	UPW1E392MHD
Ī	3900	18×30.5	0.18	2925	0.016	0.032	3635	UPW1E392MHD6
	4700	18×35.5	0.20	3525	0.015	0.030	3680	UPW1E472MHD
	6800	18×40	0.24	5100	0.014	0.028	3800	UPW1E682MHD

■ Dimensions

Rated Voltage (V)	Rated Capacitance	Case Size	tan δ	Leakage Current (µA)	ma	nce(Ω) ax.	Rated Ripple (mArms)	Part Number
(code)	(μF)	φD×L(mm)	tano	(at 20°C after) 1 minute	20℃/ 100kHz	-10°C/ 100kHz	(105°C/100kHz)	T att Number
	100	8×11.5	0.12	105	0.117	0.234	555	UPW1V101MPD
	150	8×11.5	0.12	157.5	0.117	0.234	555	UPW1V151MPD
	220	10×12.5	0.12	231	0.090	0.18	760	UPW1V221MPD
	220	8×15	0.12	231	0.085	0.17	730	UPW1V221MPD6
	330	10×16	0.12	346.5	0.068	0.136	1050	UPW1V331MPD
	330	8×20	0.12	346.5	0.065	0.13	995	UPW1V331MPD6
	390	10×20	0.12	409.5	0.052	0.104	1220	UPW1V391MPD
	470	10×20	0.12	493.5	0.052	0.104	1220	UPW1V471MPD
	560	10×25	0.12	588	0.045	0.090	1440	UPW1V561MPD
	680	12.5×20	0.12	714	0.038	0.076	1660	UPW1V681MHD
	680	10×30.5	0.12	714	0.035	0.070	1815	UPW1V681MPD
35	1000	12.5×25	0.12	1050	0.030	0.060	1950	UPW1V102MHD
(1V)	1200	12.5×30.5	0.12	1260	0.025	0.050	2310	UPW1V122MHD
	1200	16×20	0.12	1260	0.029	0.058	2210	UPW1V122MHD
	1500	16×25	0.12	1575	0.022	0.044	2555	UPW1V152MHD
	1500	12.5×35.5	0.12	1575	0.022	0.044	2510	UPW1V152MHD
-	1800	16×25	0.12	1890	0.022	0.044	2555	UPW1V182MHD
-	1800	18×20	0.12	1890	0.022	0.056	2490	UPW1V182MHD
-	2200	16×30.5	0.12	2310	0.028	0.036	3010	UPW1V222MHD
-	2200	18×25	+	2310		0.036	2740	UPW1V222MHD
-	2700		0.14		0.020			
-		16×35.5	0.14	2835	0.016	0.032	3150	UPW1V272MHD
-	2700	18×30.5	0.14	2835	0.016	0.032	3635	UPW1V272MHD
-	3300	18×35.5	0.16	3465	0.015	0.030	3680	UPW1V332MHD
	4700	18×40	0.18	4935	0.014	0.028	3800	UPW1V472MHD
	82	8×11.5	0.10	123	0.234	0.468	485	UPW1H820MPD
-	100	8×11.5	0.10	150	0.234	0.468	485	UPW1H101MPD
	120	8×15	0.10	180	0.155	0.31	635	UPW1H121MPD
	120	10×12.5	0.10	180	0.162	0.324	620	UPW1H121MPD
	150	10×12.5	0.10	225	0.162	0.324	615	UPW1H151MPD
	180	8×20	0.10	270	0.12	0.24	860	UPW1H181MPD
	180	10×16	0.10	270	0.119	0.238	850	UPW1H181MPD
	220	10×16	0.10	330	0.119	0.238	850	UPW1H221MPD
	220	10×20	0.10	330	0.090	0.18	1030	UPW1H221MPD
	270	10×25	0.10	405	0.082	0.164	1200	UPW1H271MPD
	330	10×20	0.10	495	0.090	0.18	1030	UPW1H331MPD
	330	10×30.5	0.10	495	0.060	0.12	1610	UPW1H331MPD
50	390	12.5×20	0.10	585	0.063	0.126	1480	UPW1H391MHD
(1H)	470	12.5×20	0.10	705	0.060	0.12	1500	UPW1H471MHD
	560	12.5×25	0.10	840	0.050	0.10	1832	UPW1H561MHD
	680	12.5×25	0.10	1020	0.050	0.10	1840	UPW1H681MHD
	680	16×20	0.10	1020	0.048	0.096	1840	UPW1H681MHD
	820	12.5×35.5	0.10	1230	0.034	0.068	2290	UPW1H821MHD
	820	18×20	0.10	1230	0.042	0.084	2420	UPW1H821MHD
Ī	1000	16×25	0.10	1500	0.034	0.068	2235	UPW1H102MHD
	1200	16×30.5	0.10	1800	0.028	0.056	2700	UPW1H122MHD
	1200	18×25	0.10	1800	0.029	0.058	2610	UPW1H122MHD
	1500	16×30.5	0.10	2250	0.028	0.056	2700	UPW1H152MHD
ļ	1500	16×35.5	0.10	2250	0.025	0.050	2790	UPW1H152MHD
-	1800	18×30.5	0.10	2700	0.025	0.050	3000	UPW1H182MHD
	2200	18×35.5	0.12	3300	0.023	0.046	3100	UPW1H222MHD

■ Dimensions

(code) (µF) 47 68 100 100 120 150 180 220 220 270 330 390 470 470 470 680	8×11.5 8×11.5 10×12.5 8×15 10×16 10×16 10×20 12.5×15 10×20 10×25 16×15 12.5×20 12.5×25 18×15	0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09	(at 20°C after 1 minute) 88.83 128.52 189 189 226.8 283.5 340.2 415.8 415.8 510.3	100kHz 0.342 0.342 0.256 0.23 0.194 0.194 0.147 0.15 0.147	100kHz 0.684 0.684 0.512 0.46 0.388 0.388 0.294 0.30	(105°C/100kHz) 405 405 540 535 600 660 890 1020	UPW1J470MPD UPW1J680MPD UPW1J101MPD UPW1J101MPD6 UPW1J121MPD UPW1J151MPD UPW1J151MPD UPW1J181MPD
68 100 100 100 120 150 180 180 220 220 270 330 390 63 (1J) 470 470 470	8×11.5 10×12.5 8×15 10×16 10×16 10×20 12.5×15 10×20 10×25 16×15 12.5×20 12.5×25	0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09	128.52 189 189 226.8 283.5 340.2 340.2 415.8 415.8	0.342 0.256 0.23 0.194 0.194 0.147 0.15	0.684 0.512 0.46 0.388 0.388 0.294 0.30	405 540 535 600 660 890 1020	UPW1J680MPD
100 100 120 150 180 180 220 220 270 330 390 63 (1J) 470 470	10×12.5 8×15 10×16 10×16 10×20 12.5×15 10×20 10×25 16×15 12.5×20 12.5×25	0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09	189 189 226.8 283.5 340.2 340.2 415.8 415.8	0.256 0.23 0.194 0.194 0.147 0.15 0.147	0.512 0.46 0.388 0.388 0.294 0.30	540 535 600 660 890 1020	UPW1J101MPD UPW1J101MPD6 UPW1J121MPD UPW1J151MPD UPW1J151MPD
100 120 150 180 180 220 220 270 330 390 63 (1J) 470 470 470	8×15 10×16 10×16 10×20 12.5×15 10×20 10×25 16×15 12.5×20 12.5×25	0.09 0.09 0.09 0.09 0.09 0.09 0.09	189 226.8 283.5 340.2 340.2 415.8 415.8	0.23 0.194 0.194 0.147 0.15 0.147	0.46 0.388 0.388 0.294 0.30	535 600 660 890 1020	UPW1J101MPD6 UPW1J121MPD UPW1J151MPD UPW1J181MPD
120 150 180 180 220 220 270 330 390 390 470 470 470	10×16 10×16 10×20 12.5×15 10×20 10×25 16×15 12.5×20 12.5×25	0.09 0.09 0.09 0.09 0.09 0.09	226.8 283.5 340.2 340.2 415.8 415.8	0.194 0.194 0.147 0.15 0.147	0.388 0.388 0.294 0.30	600 660 890 1020	UPW1J121MPD UPW1J151MPD UPW1J181MPD
150 180 180 220 220 270 330 390 63 (1J) 470 470	$ \begin{array}{r} 10 \times 16 \\ 10 \times 20 \\ 12.5 \times 15 \\ 10 \times 20 \\ 10 \times 25 \\ 16 \times 15 \\ 12.5 \times 20 \\ 12.5 \times 25 \end{array} $	0.09 0.09 0.09 0.09 0.09 0.09	283.5 340.2 340.2 415.8 415.8	0.194 0.147 0.15 0.147	0.388 0.294 0.30	660 890 1020	UPW1J151MPD UPW1J181MPD
180 180 220 220 270 330 390 63 (1J) 470 470 470	10×20 12.5×15 10×20 10×25 16×15 12.5×20 12.5×25	0.09 0.09 0.09 0.09 0.09	340.2 340.2 415.8 415.8	0.147 0.15 0.147	0.294 0.30	890 1020	UPW1J181MPD
180 220 220 270 330 390 63 (1J) 470 470 470	12.5×15 10×20 10×25 16×15 12.5×20 12.5×25	0.09 0.09 0.09 0.09	340.2 415.8 415.8	0.15 0.147	0.30	1020	
220 220 270 330 390 63 (1J) 470 470 470	10×20 10×25 16×15 12.5×20 12.5×25	0.09 0.09 0.09	415.8 415.8	0.147			UPW1J181MHD6
220 270 330 390 63 (1J) 470 470 470	10×25 16×15 12.5×20 12.5×25	0.09	415.8		0.294	005	
63 (1J) 470 470	16×15 12.5×20 12.5×25	0.09	+	0.12		885	UPW1J221MPD
63 390 470 470 470	12.5×20 12.5×25	-	510.3	0.13	0.26	1050	UPW1J221MPD6
63 (1J) 470 470 470	12.5×25	0.09	0.0.0	0.090	0.18	1410	UPW1J271MHD
63 (1J) 390 470 470 470			623.7	0.085	0.17	1290	UPW1J331MHD
(1J) 390 470 470 470	18×15	0.09	737.1	0.070	0.14	1720	UPW1J391MHD
470 470 470		0.09	737.1	0.086	0.172	1690	UPW1J391MHD6
470	12.5×25	0.09	888.3	0.070	0.14	1720	UPW1J471MHD
	12.5×30.5	0.09	888.3	0.055	0.11	2090	UPW1J471MHD6
680	16×20	0.09	888.3	0.059	0.118	1770	UPW1J471MHD3
	16×25	0.09	1285.2	0.050	0.10	2160	UPW1J681MHD
680	12.5×35.5	0.09	1285.2	0.047	0.094	2270	UPW1J681MHD6
680	18×20	0.09	1285.2	0.055	0.11	2290	UPW1J681MHD3
820	16×30.5	0.09	1549.8	0.043	0.086	2670	UPW1J821MHD
820	18×25	0.09	1549.8	0.043	0.086	2590	UPW1J821MHD6
1000	16×30.5	0.09	1890	0.043	0.086	2770	UPW1J102MHD
1000	16×35.5	0.09	1890	0.036	0.072	2770	UPW1J102MHD6
1200	18×30.5	0.09	2268	0.032	0.064	2950	UPW1J122MHD
1500	18×35.5	0.09	2835	0.030	0.060	3100	UPW1J152MHD
2200	18×40	0.11	4158	0.028	0.056	3200	UPW1J222MHD
15	8×11.5	0.08	45	0.83	1.66	180	UPW2A150MPD
22	8×11.5	0.08	66	0.68	1.36	230	UPW2A220MPD
33	10×12.5	0.08	99	0.46	0.92	320	UPW2A330MPD
33	8×15	0.08	99	0.45	0.90	360	UPW2A330MPD6
47	10×16	0.08	141	0.37	0.74	420	UPW2A470MPD
47	8×20	0.08	141	0.37	0.74	420	UPW2A470MPD6
68	10×20	0.08	204	0.30	0.60	490	UPW2A680MPD
82	10×25	0.08	246	0.25	0.50	540	UPW2A820MPD
100	12.5×20	0.08	300	0.18	0.36	580	UPW2A101MHD
	12.5×25	0.08	450	0.13	0.26	710	UPW2A151MHD
100 150 (2A) 180	12.5×30.5	0.08	540	0.13	0.24	790	UPW2A181MHD
180	16×20	0.08	540	0.12	0.24	750	UPW2A181MHD6
220	16×25	0.08	660	0.10	0.20	890	UPW2A221MHD
220	18×20	0.08	660	0.10	0.20	850	UPW2A221MHD6
330	16×25	0.08	990	0.090	0.18	1080	UPW2A331MHD
390	18×25	0.08	1170	0.090	0.166	1260	UPW2A331MHD
470	16×30.5	0.08	1410	0.083	0.152	1310	UPW2A391MHD
	18×30.5	-	1680				UPW2A471MHD UPW2A561MHD
560		0.08	_	0.068	0.136	1370	
680 1000	16×35.5	0.08	2040 3000	0.064	0.128	1410	UPW2A681MHD

For formed lead or taped product specifications and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.