

ALUMINUM ELECTROLYTIC CAPACITORS

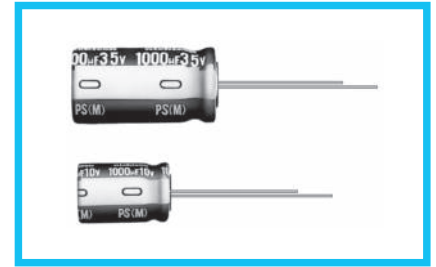
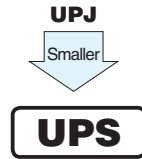
nichicon

UPS

Miniature Sized, Low Impedance,
For Switching Power Supplies



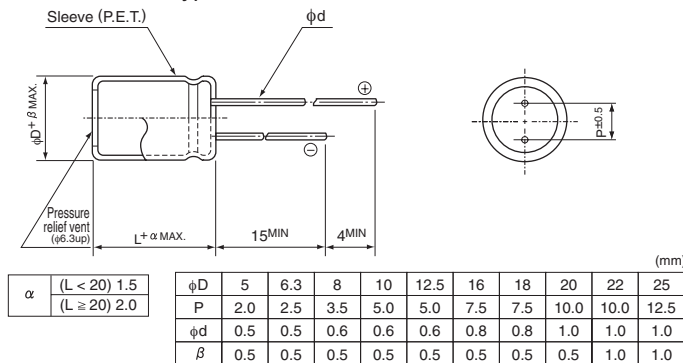
- Wide temperature range type, miniature sized.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).



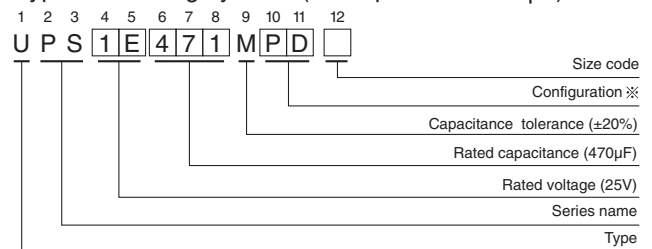
Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 400V), -25 to +105°C (450V)											
Rated Voltage Range	6.3 to 450V											
Rated Capacitance Range	0.47 to 15000μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	Rated voltage (V)	6.3 to 100							160 to 450			
	Leakage current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (μA) , whichever is greater.							After 1 minute's application of rated voltage at 20°C, CV ≤ 1000: I= 0.1CV+40 (μA) or less CV > 1000: I= 0.04CV+100 (μA) or less			
Tangent of loss angle (tan δ)	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF											
	Measurement frequency : 120Hz at 20°C											
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160 to 250	315 · 350	400 · 450
	tan δ (MAX.)	0.24	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	0.25
Stability at Low Temperature	Measurement frequency : 120Hz											
	Rated voltage (V)		6.3 · 10	16 · 25	35 · 50	63 · 100	160 · 200	250	315 · 350	400	450	
	Impedance ratio (MAX.)	Z-25°C / Z+20°C	—	—	—	2	3	3	4	6	15	
		Z-40°C / Z+20°C	—	—	—	3	4	6	8	10	—	
Z-55°C / Z+20°C		5	4	3	—	—	—	—	—	—		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 3000 hours (2000 hours for φD= 5 to 10) at 105°C, the peak voltage shall not exceed the rated voltage.							Capacitance change		Within ±20% of the initial capacitance value		
								tan δ		200% or less than the initial specified value		
								Leakage current		Less than or equal to the initial specified value		
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.											
Marking	Printed with white color letter on dark brown sleeve.											

Radial Lead Type



Type numbering system (Example : 25V 470µF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
5	DD
6.3	ED
8 · 10	PD
12.5 to 18	HD
20 to 25	RD

- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

Frequency coefficient of rated ripple current

V	Cap.(µF)	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
6.3 to 100	2.2 to 47	—	—	0.17	0.40	0.65	1.00
		100 to 220	0.30	0.50	0.65	0.80	1.00
		330 to 680	0.57	0.71	0.82	0.90	1.00
		1000 to 15000	0.75	0.87	0.96	0.98	1.00
160 to 450	0.47 to 220	—	0.80	1.00	1.25	1.40	1.60
		330 to 470	0.90	1.00	1.10	1.13	1.15

• Dimension table in next page.

CAT.8100K

UPS

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 1 minute)	Impedance (Ω) MAX. (20°C/100kHz)	Rated Ripple (mArms)		Part Number
						105°C/ 100kHz	105°C/ 120Hz	
6.3 (0J)	22	5×11	0.24	4.158	1.50	160	—	UPS0J220MDD
	33	5×11	0.24	6.237	1.50	160	—	UPS0J330MDD
	47	5×11	0.24	8.883	1.50	160	—	UPS0J470MDD
	100	5×11	0.24	18.9	1.50	160	—	UPS0J101MDD
	150	6.3×11	0.24	28.35	0.50	250	—	UPS0J151MED
	220	6.3×11	0.24	41.58	0.50	250	—	UPS0J221MED
	330	6.3×11	0.24	62.37	0.50	250	—	UPS0J331MED
	470	8×11.5	0.24	88.83	0.28	410	—	UPS0J471MPD
	680	10×12.5	0.24	128.52	0.19	600	—	UPS0J681MPD
	1000	10×12.5	0.24	189	0.19	600	—	UPS0J102MPD
	1500	10×20	0.24	283.5	0.11	1000	—	UPS0J152MPD
	2200	12.5×20	0.26	415.8	0.075	1250	—	UPS0J222MHD
	3300	12.5×20	0.28	623.7	0.075	1250	—	UPS0J332MHD
	4700	16×25	0.30	888.3	0.038	1900	—	UPS0J472MHD
	6800	16×25	0.34	1285.2	0.038	1900	—	UPS0J682MHD
	10000	16×31.5	0.42	1890	0.033	2350	—	UPS0J103MHD
	15000	18×35.5	0.52	2835	0.030	2700	—	UPS0J153MHD
10 (1A)	22	5×11	0.20	6.6	1.50	160	—	UPS1A220MDD
	33	5×11	0.20	9.9	1.50	160	—	UPS1A330MDD
	47	5×11	0.20	14.1	1.50	160	—	UPS1A470MDD
	100	5×11	0.20	30	1.50	160	—	UPS1A101MDD
	150	6.3×11	0.20	45	0.50	250	—	UPS1A151MED
	220	6.3×11	0.20	66	0.50	250	—	UPS1A221MED
	330	8×11.5	0.20	99	0.28	410	—	UPS1A331MPD
	470	8×11.5	0.20	141	0.28	410	—	UPS1A471MPD
	680	10×12.5	0.20	204	0.19	600	—	UPS1A681MPD
	1000	10×16	0.20	300	0.14	800	—	UPS1A102MPD
	1500	10×20	0.20	450	0.11	1000	—	UPS1A152MPD
	2200	12.5×20	0.22	660	0.075	1250	—	UPS1A222MHD
	3300	12.5×25	0.24	990	0.057	1550	—	UPS1A332MHD
	4700	16×25	0.26	1410	0.038	1900	—	UPS1A472MHD
	6800	16×31.5	0.30	2040	0.033	2350	—	UPS1A682MHD
	10000	18×35.5	0.38	3000	0.030	2700	—	UPS1A103MHD
	15000	18×40	0.48	4500	0.027	3300	—	UPS1A153MHD
16 (1C)	10	5×11	0.16	4.8	1.50	160	—	UPS1C100MDD
	22	5×11	0.16	10.56	1.50	160	—	UPS1C220MDD
	33	5×11	0.16	15.84	1.50	160	—	UPS1C330MDD
	47	5×11	0.16	22.56	1.50	160	—	UPS1C470MDD
	100	6.3×11	0.16	48	0.50	250	—	UPS1C101MED
	150	6.3×11	0.16	72	0.50	250	—	UPS1C151MED
	220	8×11.5	0.16	105.6	0.28	410	—	UPS1C221MPD
	330	8×11.5	0.16	158.4	0.28	410	—	UPS1C331MPD
	470	10×12.5	0.16	225.6	0.19	600	—	UPS1C471MPD
	680	10×16	0.16	326.4	0.14	800	—	UPS1C681MPD
	1000	10×20	0.16	480	0.11	1000	—	UPS1C102MPD
	1500	12.5×20	0.16	720	0.075	1250	—	UPS1C152MHD

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).

If there is no size code in the part number, please add size code "1" and then add the appropriate code.

UPS

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 1 minute)	Impedance (Ω) MAX. (20°C/100kHz)	Rated Ripple (mArms)		Part Number
						105°C/ 100kHz	105°C/ 120Hz	
16 (1C)	2200	12.5×25	0.18	1056	0.057	1550	—	UPS1C222MHD
	3300	16×25	0.20	1584	0.038	1900	—	UPS1C332MHD
	4700	16×31.5	0.22	2256	0.033	2350	—	UPS1C472MHD
	6800	18×35.5	0.26	3264	0.030	2700	—	UPS1C682MHD
	10000	18×40	0.34	4800	0.027	3300	—	UPS1C103MHD
25 (1E)	4.7	5×11	0.14	4	1.50	160	—	UPS1E4R7MDD
	10	5×11	0.14	7.5	1.50	160	—	UPS1E100MDD
	22	5×11	0.14	16.5	1.50	160	—	UPS1E220MDD
	33	5×11	0.14	24.75	1.50	160	—	UPS1E330MDD
	47	5×11	0.14	35.25	1.50	160	—	UPS1E470MDD
	100	6.3×11	0.14	75	0.50	250	—	UPS1E101MED
	150	8×11.5	0.14	112.5	0.28	410	—	UPS1E151MPD
	220	8×11.5	0.14	165	0.28	410	—	UPS1E221MPD
	330	10×12.5	0.14	247.5	0.19	600	—	UPS1E331MPD
	470	10×16	0.14	352.5	0.14	800	—	UPS1E471MPD
	680	10×20	0.14	510	0.11	1000	—	UPS1E681MPD
	1000	12.5×20	0.14	750	0.075	1250	—	UPS1E102MHD
	1500	16×25	0.14	1125	0.038	1900	—	UPS1E152MHD
	2200	16×25	0.16	1650	0.038	1900	—	UPS1E222MHD
	3300	16×31.5	0.18	2475	0.033	2350	—	UPS1E332MHD
	4700	18×35.5	0.20	3525	0.030	2700	—	UPS1E472MHD
	6800	18×40	0.24	5100	0.027	3300	—	UPS1E682MHD
35 (1V)	4.7	5×11	0.12	4.935	1.50	160	—	UPS1V4R7MDD
	10	5×11	0.12	10.5	1.50	160	—	UPS1V100MDD
	22	5×11	0.12	23.1	1.50	160	—	UPS1V220MDD
	33	5×11	0.12	34.65	1.50	160	—	UPS1V330MDD
	47	6.3×11	0.12	49.35	0.50	250	—	UPS1V470MED
	100	8×11.5	0.12	105	0.28	410	—	UPS1V101MPD
	150	8×11.5	0.12	157.5	0.28	410	—	UPS1V151MPD
	220	10×12.5	0.12	231	0.19	600	—	UPS1V221MPD
	330	10×16	0.12	346.5	0.14	800	—	UPS1V331MPD
	470	10×20	0.12	493.5	0.11	1000	—	UPS1V471MPD
	680	12.5×20	0.12	714	0.075	1250	—	UPS1V681MHD
	1000	12.5×25	0.12	1050	0.057	1550	—	UPS1V102MHD
	1500	16×25	0.12	1575	0.038	1900	—	UPS1V152MHD
	2200	16×31.5	0.14	2310	0.033	2350	—	UPS1V222MHD
	3300	18×35.5	0.16	3465	0.030	2700	—	UPS1V332MHD
	4700	18×40	0.18	4935	0.027	3300	—	UPS1V472MHD
50 (1H)	2.2	5×11	0.10	4	4.50	55	—	UPS1H2R2MDD
	3.3	5×11	0.10	4.95	3.90	65	—	UPS1H3R3MDD
	4.7	5×11	0.10	7.05	3.50	90	—	UPS1H4R7MDD
	10	5×11	0.10	15	2.10	120	—	UPS1H100MDD
	22	5×11	0.10	33	1.80	150	—	UPS1H220MDD
	33	6.3×11	0.10	49.5	0.65	250	—	UPS1H330MED
	47	6.3×11	0.10	70.5	0.65	250	—	UPS1H470MED
	100	8×11.5	0.10	150	0.36	340	—	UPS1H101MPD

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UPS

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 1 minute)	Impedance (Ω) MAX. (20°C/100kHz)	Rated Ripple (mA _{rms})		Part Number
						105°C/ 100kHz	105°C/ 120Hz	
50 (1H)	150	10×12.5	0.10	225	0.26	490	—	UPS1H151MPD
	220	10×16	0.10	330	0.18	650	—	UPS1H221MPD
	330	10×20	0.10	495	0.15	810	—	UPS1H331MPD
	470	12.5×20	0.10	705	0.13	1100	—	UPS1H471MHD
	680	12.5×25	0.10	1020	0.10	1200	—	UPS1H681MHD
	1000	16×25	0.10	1500	0.058	1600	—	UPS1H102MHD
	1500	16×31.5	0.10	2250	0.040	2000	—	UPS1H152MHD
	2200	18×35.5	0.12	3300	0.035	2300	—	UPS1H222MHD
63 (1J)	4.7	5×11	0.09	8.883	4.70	68	—	UPS1J4R7MDD
	10	5×11	0.09	18.9	2.10	110	—	UPS1J100MDD
	22	6.3×11	0.09	41.58	0.98	180	—	UPS1J220MED
	33	6.3×11	0.09	62.37	0.71	220	—	UPS1J330MED
	47	8×11.5	0.09	88.83	0.65	310	—	UPS1J470MPD
	100	10×12.5	0.09	189	0.31	390	—	UPS1J101MPD
	150	10×16	0.09	283.5	0.25	440	—	UPS1J151MPD
	220	10×20	0.09	415.8	0.20	700	—	UPS1J221MPD
	330	12.5×20	0.09	623.7	0.12	980	—	UPS1J331MHD
	470	12.5×25	0.09	888.3	0.081	1200	—	UPS1J471MHD
	680	16×25	0.09	1285.2	0.058	1300	—	UPS1J681MHD
	1000	16×31.5	0.09	1890	0.049	1380	—	UPS1J102MHD
	1500	18×35.5	0.09	2835	0.038	1750	—	UPS1J152MHD
	2200	18×40	0.11	4158	0.032	2120	—	UPS1J222MHD
100 (2A)	2.2	5×11	0.08	6.6	9.80	44	—	UPS2A2R2MDD
	3.3	5×11	0.08	9.9	6.60	58	—	UPS2A3R3MDD
	4.7	5×11	0.08	14.1	4.60	74	—	UPS2A4R7MDD
	10	6.3×11	0.08	30	1.80	130	—	UPS2A100MED
	22	8×11.5	0.08	66	0.68	230	—	UPS2A220MPD
	33	10×12.5	0.08	99	0.46	320	—	UPS2A330MPD
	47	10×16	0.08	141	0.37	420	—	UPS2A470MPD
	100	12.5×20	0.08	300	0.18	580	—	UPS2A101MHD
	150	12.5×25	0.08	450	0.13	710	—	UPS2A151MHD
	220	16×25	0.08	660	0.10	890	—	UPS2A221MHD
	330	16×25	0.08	990	0.090	1080	—	UPS2A331MHD
	470	16×31.5	0.08	1410	0.076	1310	—	UPS2A471MHD
	680	16×35.5	0.08	2040	0.064	1410	—	UPS2A681MHD
	1000	18×40	0.08	3000	0.047	1520	—	UPS2A102MHD

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UPS

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 1 minute)	Rated Ripple (mArms)		Part Number
					105°C/ 100kHz	105°C/ 120Hz	
160 (2C)	0.47	6.3 × 11	0.15	47.52	—	12	UPS2CR47MED
	1	6.3 × 11	0.15	56	—	17	UPS2C010MED
	2.2	6.3 × 11	0.15	75.2	—	25	UPS2C2R2MED
	3.3	8 × 11.5	0.15	92.8	—	36	UPS2C3R3MPD
	4.7	8 × 11.5	0.15	115.2	—	43	UPS2C4R7MPD
	10	10 × 12.5	0.15	164	—	70	UPS2C100MPD
	22	10 × 20	0.15	240.8	—	130	UPS2C220MPD
	33	12.5 × 20	0.15	311.2	—	180	UPS2C330MHD
	47	12.5 × 25	0.15	400.8	—	220	UPS2C470MHD
	100	16 × 25	0.15	740	—	330	UPS2C101MHD
	220	18 × 35.5	0.15	1508	—	500	UPS2C221MHD
	220	20 × 31	0.15	1508	—	500	UPS2C221MRD6
	330	20 × 40	0.15	2212	—	900	UPS2C331MRD
	470	22 × 50	0.15	3108	—	1200	UPS2C471MRD
200 (2D)	0.47	6.3 × 11	0.15	49.4	—	12	UPS2DR47MED
	1	6.3 × 11	0.15	60	—	17	UPS2D010MED
	2.2	6.3 × 11	0.15	84	—	25	UPS2D2R2MED
	3.3	8 × 11.5	0.15	106	—	36	UPS2D3R3MPD
	4.7	10 × 12.5	0.15	134	—	50	UPS2D4R7MPD
	10	10 × 16	0.15	180	—	80	UPS2D100MPD
	22	10 × 20	0.15	276	—	140	UPS2D220MPD
	33	12.5 × 25	0.15	364	—	190	UPS2D330MHD
	47	12.5 × 25	0.15	476	—	220	UPS2D470MHD
	100	16 × 31.5	0.15	900	—	335	UPS2D101MHD
	220	18 × 40	0.15	1860	—	515	UPS2D221MHD
	220	20 × 35	0.15	1860	—	515	UPS2D221MRD6
	330	22 × 40	0.15	2740	—	1100	UPS2D331MRD
	470	22 × 50	0.15	3860	—	1310	UPS2D471MRD
250 (2E)	0.47	6.3 × 11	0.15	51.75	—	12	UPS2ER47MED
	1	6.3 × 11	0.15	65	—	17	UPS2E010MED
	2.2	8 × 11.5	0.15	95	—	29	UPS2E2R2MPD
	3.3	10 × 12.5	0.15	122.5	—	42	UPS2E3R3MPD
	4.7	10 × 12.5	0.15	147	—	50	UPS2E4R7MPD
	10	10 × 20	0.15	200	—	88	UPS2E100MPD
	22	12.5 × 25	0.15	320	—	155	UPS2E220MHD
	33	12.5 × 25	0.15	430	—	190	UPS2E330MHD
	47	16 × 25	0.15	570	—	230	UPS2E470MHD
	100	18 × 35.5	0.15	1100	—	340	UPS2E101MHD
	100	20 × 31	0.15	1100	—	340	UPS2E101MRD6
	220	20 × 40	0.15	2300	—	525	UPS2E221MRD
	330	22 × 50	0.15	3400	—	1150	UPS2E331MRD
	470	25 × 50	0.15	4800	—	1350	UPS2E471MRD

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UPS

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 1 minute)	Rated Ripple (mA _{rms})		Part Number
					105°C/ 100kHz	105°C/ 120Hz	
315 (2F)	0.47	8 × 11.5	0.20	54.805	—	11	UPS2FR47MPD
	1	8 × 11.5	0.20	71.5	—	16	UPS2F010MPD
	2.2	10 × 12.5	0.20	109.3	—	28	UPS2F2R2MPD
	3.3	10 × 12.5	0.20	141.58	—	34	UPS2F3R3MPD
	4.7	10 × 16	0.20	159.22	—	45	UPS2F4R7MPD
	10	10 × 20	0.20	226	—	72	UPS2F100MPD
	22	12.5 × 25	0.20	377.2	—	120	UPS2F220MHD
	33	16 × 25	0.20	515.8	—	155	UPS2F330MHD
	47	16 × 35.5	0.20	692.2	—	190	UPS2F470MHD
	100	18 × 40	0.20	1360	—	285	UPS2F101MHD
	100	20 × 35	0.20	1360	—	285	UPS2F101MRD6
	220	22 × 50	0.20	2872	—	540	UPS2F221MRD
350 (2V)	0.47	8 × 11.5	0.20	56.45	—	11	UPS2VR47MPD
	1	10 × 12.5	0.20	75	—	17	UPS2V010MPD
	2.2	10 × 16	0.20	117	—	31	UPS2V2R2MPD
	3.3	10 × 16	0.20	146.2	—	38	UPS2V3R3MPD
	4.7	10 × 20	0.20	165.8	—	49	UPS2V4R7MPD
	10	12.5 × 20	0.20	240	—	82	UPS2V100MHD
	22	16 × 25	0.20	408	—	130	UPS2V220MHD
	33	16 × 31.5	0.20	562	—	160	UPS2V330MHD
	47	18 × 35.5	0.20	758	—	200	UPS2V470MHD
	47	20 × 31	0.20	758	—	200	UPS2V470MRD6
	100	20 × 40	0.20	1500	—	290	UPS2V101MRD
	220	25 × 50	0.20	3180	—	550	UPS2V221MRD
400 (2G)	1	10 × 12.5	0.25	80	—	16	UPS2G010MPD
	2.2	10 × 16	0.25	128	—	27	UPS2G2R2MPD
	3.3	10 × 20	0.25	152.8	—	36	UPS2G3R3MPD
	4.7	10 × 20	0.25	175.2	—	43	UPS2G4R7MPD
	10	12.5 × 25	0.25	260	—	72	UPS2G100MHD
	22	16 × 25	0.25	452	—	110	UPS2G220MHD
	33	16 × 31.5	0.25	628	—	140	UPS2G330MHD
	47	18 × 35.5	0.25	852	—	170	UPS2G470MHD
	47	20 × 31	0.25	852	—	170	UPS2G470MRD6
450 (2W)	100	22 × 50	0.25	1700	—	350	UPS2G101MRD
	1	10 × 12.5	0.25	85	—	18	UPS2W010MPD
	2.2	10 × 20	0.25	139	—	29	UPS2W2R2MPD
	3.3	12.5 × 20	0.25	159.4	—	41	UPS2W3R3MHD
	4.7	12.5 × 20	0.25	184.6	—	49	UPS2W4R7MHD
	10	16 × 25	0.25	280	—	75	UPS2W100MHD
	22	16 × 31.5	0.25	496	—	115	UPS2W220MHD
	33	18 × 35.5	0.25	694	—	145	UPS2W330MHD
	33	20 × 31	0.25	694	—	145	UPS2W330MRD6
	47	20 × 40	0.25	946	—	175	UPS2W470MRD
	100	25 × 50	0.25	1900	—	350	UPS2W101MRD

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).

If there is no size code in the part number, please add size code "1" and then add the appropriate code.

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

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