ALUMINUM ELECTROLYTIC CAPACITORS

UCY

Miniature Sized, High Ripple Current, High Reliability

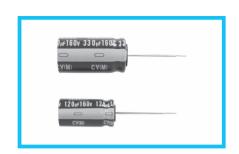


UCS

Smaller

- High ripple current and Long Life product withstanding load life of 10000 to 12000 hours at +105°C.
- Suited for power supply and ballast application.
- Compliant to the RoHS directive (2011/65/EU,(EU) 2015/863).
- AEC-Q200 Qualified. Please contact us for details.



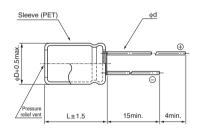


■ Specifications

Item	Performance Characteristics													
Category Temperature Range	-40 to +105°C													
Rated Voltage Range	160 to 500V													
Rated Capacitance Range	6.8 to 680µF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current *	After 1 minute's application	on of ra	ted voltag	ge at 20	°C, lea	kage cı	urrent	is not m	ore thar	0.04C	V+100	(μΑ)		
								Measure	ment free	quency	: 120Hz	z at 20°C		
Tangent of loss angle (tan δ)	Rated voltage (V)	160	200	25	0	350	4	00	420	450)	500		
	tan δ (max.) 0).20	0.20	0.2	10	0.24	0	24	0.24	0.24	1	0.24		
	Measurement frequency : 120Hz													
	Rated voltage	e (V)		160	200	250	350	400	420	450	500			
Stability at Low Temperature	Impedance ratio (max.)	_	C) / Z(+20°C)	3	3	3	5	5	6	6	6	_		
	,	Z(-40°	C) / Z(+20°C)	6	6	6	6	6		-	_			
	The specifications listed a	at right	shall be n	net whe	en the									
	capacitors are restored to				s plus rated Cap			Capacita	pacitance change		Within ±20% of the initial capacitance value			
Endurance	ripple current is applied for 12000 hours (10000 hours for 20L tan δ 200% or less than the initial specified													
	or less, 500V) at 105°C, t rated voltage.	or less, 500V) at 105°C, the peak voltage shall not exceed the rated voltage.									alue			
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 le	etter on	dark brov	wn slee	ve.									

※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

■ Radial Lead Type





				(mm)
φD	10	12.5	16	18
Р	5.0	5.0	7.5	7.5
φd	0.6	0.6*	8.0	0.8

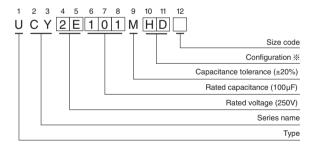
% In case L > 25 for the $\varphi 12.5$ dia. unit, lead dia. φ d = 0.8mm.

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

Frequency coefficient of rated ripple current

Frequency	50Hz	120Hz	1kHz	10kHz	100kHz or more
Coefficient	0.80	1.00	1.60	1.80	2.00

Type numbering system (Example: 250V 100µF)



※ Configuration

7. Comigaration							
φD	Pb-free leadwire Pb-free PET sleeve						
10	PD						
12.5 to 18	HD						

■ Dimensions

(V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 1 minute	Rated Ripple (mArms) (105°C/120Hz)	Part Number
	33	10×16	0.20	311.2	260	UCY2C330MPD
	39	10×16	0.20	349.6	295	UCY2C390MPD
	47	10×20	0.20	400.8	375	UCY2C470MPD
	56	10×20	0.20	458.4	380	UCY2C560MPD
	68	10×25	0.20	535.2	455	UCY2C680MPD
	68	12.5×20	0.20	535.2	590	UCY2C680MHD3
	82	10×30.5	0.20	624.8	534	UCY2C820MPD
	82	10×25	0.20	624.8	455	UCY2C820MPD9
	82	12.5×20	0.20	624.8	640	UCY2C820MHD3
	100	12.5×20	0.20	740	645	UCY2C101MHD
	120	12.5×25	0.20	868	760	UCY2C121MHD
	150	12.5×30.5	0.20	1060	905	UCY2C151MHD
	150	12.5×25	0.20	1060	760	UCY2C151MHD9
	150	16×20	0.20	1060	945	UCY2C151MHD3
	180	16×20	0.20	1252	1000	UCY2C181MHD
160	180	12.5×30.5	0.20	1252	905	UCY2C181MHD9
(2C)	180	12.5×35.5	0.20	1252	1050	UCY2C181MHD6
	220	12.5×40	0.20	1508	1200	UCY2C221MHD
	220	12.5×35.5	0.20	1508	1050	UCY2C221MHD9
	220	16×25	0.20	1508	1185	UCY2C221MHD3
	220	18×20	0.20	1508	1105	UCY2C221MHD6
	270	18×25	0.20	1828	1235	UCY2C271MHD
	270	12.5×40	0.20	1828	1300	UCY2C271MHD6
	330	16×30.5	0.20	2212	1510	UCY2C331MHD
	330	18×25	0.20	2212	1445	UCY2C331MHD6
	390	16×40	0.20	2596	1730	UCY2C391MHD
-	390	16×35.5	0.20	2596	1510	UCY2C391MHD9
	390	18×30.5	0.20	2596	1695	UCY2C391MHD6
	470	18×35.5	0.20	3108	1920	UCY2C471MHD
-	470	16×40	0.20	3108	1730	UCY2C471MHD6
	560	18×40	0.20	3684	2130	UCY2C561MHD
-	680	18×46	0.20	4452	2300	UCY2C681MHD
	22	10×16	0.20	276	225	UCY2D220MPD
-	27	10×16	0.20	316	235	UCY2D270MPD
	33	10×20	0.20	364	305	UCY2D330MPD
-	39	10×20	0.20	412	325	UCY2D390MPD
-	47	10×20	0.20	476	360	UCY2D470MPD
	47	12.5×20	0.20	476	490	UCY2D470MHD3
200	56	10×25	0.20	548	415	UCY2D560MPD
(2D)	68	10×30.5	0.20	644	485	UCY2D680MPD
-	68	12.5×20	0.20	644	650	UCY2D680MHD3
-	82	12.5×25	0.20	756	645	UCY2D820MHD
-	82	12.5×20	0.20	756	645	UCY2D820MHD9
-	82	16×20	0.20	756	690	UCY2D820MHD3
-	100	12.5×25	0.20	900	695	UCY2D101MHD
-	100	16×20	0.20	900	710	UCY2D101MHD3

■ Dimensions

tated 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) (105°C/120Hz)	Part Number
	120	16×20	0.20	1060	775	UCY2D121MHD
	120	12.5×30.5	0.20	1060	810	UCY2D121MHD6
	150	12.5×35.5	0.20	1300	965	UCY2D151MHD
	150	16×25	0.20	1300	945	UCY2D151MHD3
	150	18×20	0.20	1300	910	UCY2D151MHD6
	180	12.5×40	0.20	1540	1090	UCY2D181MHD
	180	16×25	0.20	1540	1035	UCY2D181MHD6
	180	18×20	0.20	1540	910	UCY2D181MHD3
	220	16×30.5	0.20	1860	1230	UCY2D221MHD
200 (2D)	220	12.5×40	0.20	1860	1090	UCY2D221MHD6
(20)	220	18×25	0.20	1860	1185	UCY2D221MHD3
	270	16×35.5	0.20	2260	1400	UCY2D271MHD
	270	18×30.5	0.20	2260	1410	UCY2D271MHD6
	330	16×40	0.20	2740	1595	UCY2D331MHD
	330	18×30.5	0.20	2740	1560	UCY2D331MHD6
	390	18×40	0.20	3220	1780	UCY2D391MHD
	390	18×35.5	0.20	3220	1690	UCY2D391MHD9
	470	18×40	0.20	3860	1850	UCY2D471MHD
	470	18×46	0.20	3860	1900	UCY2D471MHD6
	22	10×16	0.20	320	225	UCY2E220MPD
	27	10×20	0.20	370	255	UCY2E270MPD
	33	10×20	0.20	430	305	UCY2E330MPD
	33	12.5×20	0.20	430	400	UCY2E330MHD3
	39	10×25	0.20	490	345	UCY2E390MPD
	47	10×30.5	0.20	570	405	UCY2E470MPD
	47	10×25	0.20	570	345	UCY2E470MPD9
	47	12.5×20	0.20	570	490	UCY2E470MHD3
	56	12.5×20	0.20	660	515	UCY2E560MHD
	68	12.5×25	0.20	780	615	UCY2E680MHD
	68	16×20	0.20	780	650	UCY2E680MHD3
	82	12.5×30.5	0.20	920	715	UCY2E820MHD
	82	12.5×25	0.20	920	615	UCY2E820MHD9
250 (2E)	82	16×20	0.20	920	690	UCY2E820MHD3
(2L)	100	16×20	0.20	1100	715	UCY2E101MHD
	100	12.5×35.5	0.20	1100	785	UCY2E101MHD6
	120	16×25	0.20	1300	845	UCY2E121MHD
	120	12.5×35.5	0.20	1300	785	UCY2E121MHD9
	120	12.5×40	0.20	1300	890	UCY2E121MHD3
	120	18×20	0.20	1300	815	UCY2E121MHD6
	150	18×25	0.20	1600	970	UCY2E151MHD
	150	12.5×40	0.20	1600	990	UCY2E151MHD6
	180	16×30.5	0.20	1900	1110	UCY2E181MHD
	180	18×25	0.20	1900	1050	UCY2E181MHD6
	220	16×40	0.20	2300	1295	UCY2E221MHD
-	220	16×35.5	0.20	2300	1220	UCY2E221MHD9
ļ	220	18×30.5	0.20	2300	1160	UCY2E221MHD3

■ Dimensions

(V) (code)	Rated Capacitance (µF)	Case Size ∳D×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 1 minute	Rated Ripple (mArms) (105°C/120Hz)	Part Number
	270	18×35.5	0.20	2800	1450	UCY2E271MHD
250	270	16×40	0.20	2800	1350	UCY2E271MHD6
(2E)	330	18×46	0.20	3400	1600	UCY2E331MHD
	330	18×40	0.20	3400	1530	UCY2E331MHD9
	12	10×16	0.24	268	160	UCY2V120MPD
	15	10×20	0.24	310	180	UCY2V150MPD
	18	10×20	0.24	352	215	UCY2V180MPD
	22	10×25	0.24	408	255	UCY2V220MPD
	22	10×20	0.24	408	215	UCY2V220MPD9
	22	12.5×20	0.24	408	325	UCY2V220MHD3
	27	10×30.5	0.24	478	305	UCY2V270MPD
	27	10×25	0.24	478	255	UCY2V270MPD9
	33	12.5×20	0.24	562	380	UCY2V330MHD
	33	16×20	0.24	562	450	UCY2V330MHD3
	39	12.5×25	0.24	646	455	UCY2V390MHD
	47	12.5×25	0.24	758	510	UCY2V470MHD
	47	16×20	0.24	758	540	UCY2V470MHD3
	56	12.5×30.5	0.24	884	590	UCY2V560MHD
350	56	16×20	0.24	884	565	UCY2V560MHD6
(2V)	68	12.5×35.5	0.24	1052	695	UCY2V680MHD
	68	16×25	0.24	1052	700	UCY2V680MHD3
	68	18×20	0.24	1052	690	UCY2V680MHD6
	82	16×30.5	0.24	1248	740	UCY2V820MHD
	82	12.5×40	0.24	1248	785	UCY2V820MHD6
	82	16×25	0.24	1248	700	UCY2V820MHD9
	82	18×25	0.24	1248	765	UCY2V820MHD3
	100	16×30.5	0.24	1500	825	UCY2V101MHD
	100	18×25	0.24	1500	790	UCY2V101MHD3
	120	16×35.5	0.24	1780	925	UCY2V121MHD
	120	18×30.5	0.24	1780	940	UCY2V121MHD6
	150	18×35.5	0.24	2200	1080	UCY2V151MHD
	150	16×40	0.24	2200	1000	UCY2V151MHD6
	180	18×40	0.24	2620	1205	UCY2V181MHD
	220	18×46	0.24	3180	1300	UCY2V221MHD
	6.8	10×16	0.24	208.8	140	UCY2G6R8MPD
	10	10×16	0.24	260	150	UCY2G100MPD
	12	10×20	0.24	292	175	UCY2G120MPD
	15	10×20	0.24	340	180	UCY2G150MPD
	18	10×25	0.24	388	235	UCY2G180MPD
400	22	10×30.5	0.24	452	275	UCY2G220MPD
(2G)	27	12.5×20	0.24	532	360	UCY2G270MHD
	33	12.5×25	0.24	628	385	UCY2G330MHD
	33	16×20	0.24	628	450	UCY2G330MHD3
	39	12.5×30.5	0.24	724	465	UCY2G390MHD
	39	12.5×25	0.24	724	385	UCY2G390MHD9
	47	16×20	0.24	852	520	UCY2G470MHD

■ 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) (105°C/120Hz)	Part Number
	47	12.5×30.5	0.24	852	510	UCY2G470MHD6
	47	18×20	0.24	852	590	UCY2G470MHD3
	56	12.5×35.5	0.24	996	630	UCY2G560MHD
	56	16×25	0.24	996	585	UCY2G560MHD6
	56	18×20	0.24	996	600	UCY2G560MHD3
	68	12.5×40	0.24	1188	720	UCY2G680MHD
	68	16×25	0.24	1188	640	UCY2G680MHD9
	68	18×25	0.24	1188	735	UCY2G680MHD3
400 (2G)	82	16×30.5	0.24	1412	805	UCY2G820MHD
(23)	82	18×25	0.24	1412	765	UCY2G820MHD3
	100	16×35.5	0.24	1700	850	UCY2G101MHD
	100	18×30.5	0.24	1700	875	UCY2G101MHD6
	120	18×30.5	0.24	2020	940	UCY2G121MHD
	120	16×40	0.24	2020	950	UCY2G121MHD6
	120	18×35.5	0.24	2020	960	UCY2G121MHD3
	150	18×40	0.24	2500	1030	UCY2G151MHD
	180	18×46	0.24	2980	1110	UCY2G181MHD
	6.8	10×16	0.24	214.24	105	UCYW66R8MPD
	10	10×20	0.24	268	135	UCYW6100MPD
	12	10×20	0.24	301.6	150	UCYW6120MPD
	15	10×25	0.24	352	185	UCYW6150MPD
	18	10×30.5	0.24	402.4	215	UCYW6180MPD
	22	12.5×20	0.24	469.6	285	UCYW6220MHD
	27	12.5×25	0.24	553.6	340	UCYW6270MHD
	33	12.5×30.5	0.24	654.4	400	UCYW6330MHD
	33	16×20	0.24	654.4	385	UCYW6330MHD3
	39	12.5×30.5	0.24	755.2	430	UCYW6390MHD
420	47	12.5×35.5	0.24	889.6	505	UCYW6470MHD
(W6)	47	16×25	0.24	889.6	500	UCYW6470MHD6
	47	18×20	0.24	889.6	480	UCYW6470MHD3
	56	12.5×40	0.24	1040.8	570	UCYW6560MHD
	68	16×30.5	0.24	1242.4	645	UCYW6680MHD
	68	18×25	0.24	1242.4	615	UCYW6680MHD3
	82	16×35.5	0.24	1477.6	725	UCYW6820MHD
	82	18×30.5	0.24	1477.6	730	UCYW6820MHD6
	100	16×40	0.24	1780	825	UCYW6101MHD
	100	18×35.5	0.24	1780	835	UCYW6101MHD6
	120	18×40	0.24	2116	930	UCYW6121MHD
	120	18×46	0.24	2116	945	UCYW6121MHD6
	6.8	10×16	0.24	222.4	105	UCY2W6R8MPD
	10	10×10	0.24	280	135	UCY2W100MPD
	12	10×20	0.24	316	150	UCY2W120MPD
450	15	10×25	0.24	370	185	UCY2W150MPD
(2W)	18		0.24	424	215	UCY2W150MPD
		10×30.5		424		
-	18 22	12.5×20 12.5×25	0.24	424	255 300	UCY2W180MHD6 UCY2W220MHD



■ 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) (105°C/120Hz)	Part Number
	27	12.5×25	0.24	586	340	UCY2W270MHD
	33	12.5×30.5	0.24	694	400	UCY2W330MHD
	33	16×20	0.24	694	385	UCY2W330MHD3
	39	12.5×35.5	0.24	802	460	UCY2W390MHD
	39	18×20	0.24	802	440	UCY2W390MHD3
	47	12.5×40	0.24	946	525	UCY2W470MHD
-	47	16×25	0.24	946	500	UCY2W470MHD6
450 (2W)	56	16×30.5	0.24	1108	585	UCY2W560MHD
(200)	56	18×25	0.24	1108	560	UCY2W560MHD3
-	68	16×35.5	0.24	1324	660	UCY2W680MHD
	82	16×40	0.24	1576	750	UCY2W820MHD
	82	18×30.5	0.24	1576	730	UCY2W820MHD6
-	100	18×35.5	0.24	1900	835	UCY2W101MHD
	120	18×40	0.24	2260	930	UCY2W121MHD
	120	18×46	0.24	2260	945	UCY2W121MHD6
	10	12.5×20	0.24	300	160	UCY2H100MHD
	15	12.5×25	0.24	400	220	UCY2H150MHD
	15	16×20	0.24	400	220	UCY2H150MHD3
	18	12.5×30.5	0.24	460	240	UCY2H180MHD
	18	16×20	0.24	460	240	UCY2H180MHD3
	22	12.5×35.5	0.24	540	280	UCY2H220MHD
	22	16×25	0.24	540	280	UCY2H220MHD6
	22	18×20	0.24	540	280	UCY2H220MHD3
500 (2H)	27	12.5×40	0.24	640	310	UCY2H270MHD
(211)	27	16×25	0.24	640	310	UCY2H270MHD6
	33	16×30.5	0.24	760	350	UCY2H330MHD
	33	18×25	0.24	760	350	UCY2H330MHD3
	39	16×35.5	0.24	880	380	UCY2H390MHD
	47	16×40	0.24	1040	440	UCY2H470MHD
	47	18×30.5	0.24	1040	440	UCY2H470MHD6
	56	18×35.5	0.24	1220	480	UCY2H560MHD
Ī	68	18×40	0.24	1460	525	UCY2H680MHD

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