

ULD1A331MPD Datasheet



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DiGi Electronics Part Number	ULD1A331MPD-DG
Manufacturer	Nichicon
Manufacturer Product Number	ULD1A331MPD
Description	CAP ALUM 330UF 20% 10V RADIAL
Detailed Description	330 μ F 10 V Aluminum Electrolytic Capacitors Radial, Can 10000 Hrs @ 105°C

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Purchase and inquiry

Manufacturer Product Number:

ULD1A331MPD

Series:

ULD

Capacitance:

330 μ F

Voltage - Rated:

10 V

Lifetime @ Temp.:

10000 Hrs @ 105°C

Polarization:

Polar

Applications:

General Purpose

Ripple Current @ High Frequency:

330 mA @ 100 kHz

Size / Dimension:

0.315" Dia (8.00mm)

Surface Mount Land Size:

-

Package / Case:

Radial, Can

Manufacturer:

Nichicon

Product Status:

Not For New Designs

Tolerance:

\pm 20%

ESR (Equivalent Series Resistance):

-

Operating Temperature:

-40°C ~ 105°C

Ratings:

-

Ripple Current @ Low Frequency:

231 mA @ 120 Hz

Lead Spacing:

0.138" (3.50mm)

Height - Seated (Max):

0.531" (13.50mm)

Mounting Type:

Through Hole

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Affected

HTSUS:

8532.22.0020

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

ALUMINUM ELECTROLYTIC CAPACITORS

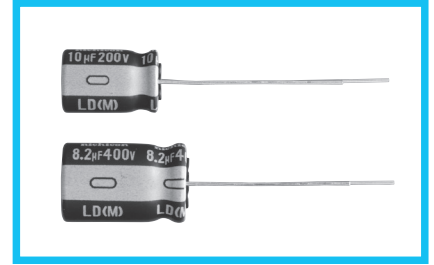
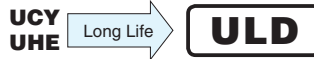


ULD

Miniature sized, Long Life Assurance



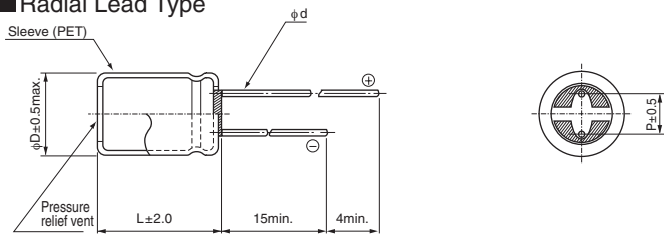
- Long Life product withstanding
load life of 20000 hours (some are 15000 or 10000 hours) at +105°C.
- Suited for the power supply for LED lighting.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



Specifications

Item	Performance Characteristics	
Category Temperature Range	-40 to +105°C	
Rated Voltage Range	10 to 450V	
Rated Capacitance Range	22 to 330µF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Leakage Current ※	Rated Voltage(V)	10 to 100
	—	160 to 450
Tangent of loss angle (tan δ)	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV (µA).	
	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.	
Stability at Low Temperature	Measurement frequency : 120Hz at 20°C	
	Rated voltage (V)	10 16 25 35 50 63 100 160 to 450
Endurance	Rated Voltage(V)	10 to 100
	—	160 to 450
Shelf Life	The specifications listed below shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 10000 hours at 105°C, the peak voltage shall not exceed the rated voltage.	
	The specifications listed below shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 20000 hours (15000 hours for φ8×11.5L, φ10×12.5L) at 105°C, the peak voltage shall not exceed the rated voltage.	
Marking	Capacitance change	tan δ
	Leakage current	

Radial Lead Type



	(mm)				
φD	8	10	12.5	16	18
P	3.5	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.6	0.8	0.8

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

● Frequency coefficient of rated ripple current (10~100V)

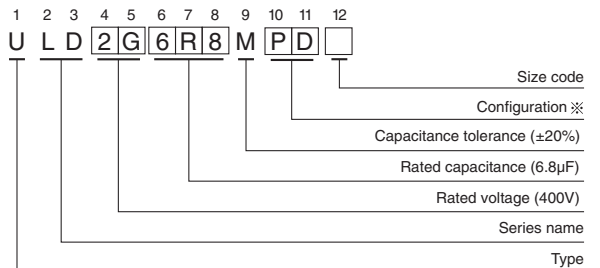
Cap.(µF)	Frequency			
22µF	120Hz	1kHz	10kHz	100kHz
47 to 330µF	0.55	0.75	0.90	1.00
	0.70	0.85	0.95	1.00

● Frequency coefficient of rated ripple current (160~450V)

Cap.(µF)	Frequency			
2.2 to 5.6µF	120Hz	1kHz	10kHz	100kHz or more
6.8 to 18µF	1.00	1.60	1.80	2.00
22 to 68µF	1.00	1.50	1.70	1.90
	1.00	1.40	1.60	1.80

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

Type numbering system (Example : 400V 6.8µF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
8 · 10	PD
12.5 to 18	HD

● Dimension table in next page.

ALUMINUM ELECTROLYTIC CAPACITORS

ULD

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 2 minute)	Rated Ripple (mArms) (105°C/100Hz)	Part Number
10 (1A)	330	8×11.5	0.45	33	330	ULD1A331MPD
16 (1C)	220	8×11.5	0.35	35.2	330	ULD1C221MPD
	270	8×11.5	0.35	43.2	330	ULD1C271MPD
25 (1E)	150	8×11.5	0.30	37.5	330	ULD1E151MPD
35 (1V)	100	8×11.5	0.22	35	330	ULD1V101MPD
50 (1H)	100	8×11.5	0.19	50	270	ULD1H101MPD
63 (1J)	47	8×11.5	0.17	29.61	240	ULD1J470MPD
100 (2A)	22	8×11.5	0.15	22	230	ULD2A220MPD

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
160 (2C)	15	8×11.5	0.24	196	92	ULD2C150MPD
	22	10×12.5	0.24	240.8	121	ULD2C220MPD
	33	10×16	0.24	311.2	158	ULD2C330MPD
200 (2D)	10	8×11.5	0.24	180	80	ULD2D100MPD
	18	10×12.5	0.24	244	113	ULD2D180MPD
	27	10×16	0.24	316	149	ULD2D270MPD
400 (2G)	2.2	8×11.5	0.24	128	40	ULD2G2R2MPD
	2.7	8×11.5	0.24	143.2	43	ULD2G2R7MPD
	3.3	8×11.5	0.24	152.8	47	ULD2G3R3MPD
	3.9	10×12.5	0.24	162.4	57	ULD2G3R9MPD
	4.7	10×12.5	0.24	175.2	61	ULD2G4R7MPD
	5.6	10×12.5	0.24	189.6	64	ULD2G5R6MPD
	6.8	10×16	0.24	208.8	85	ULD2G6R8MPD
450 (2W)	8.2	10×16	0.24	231.2	88	ULD2G8R2MPD
	5.6	10×16	0.24	200.8	58	ULD2W5R6MPD
	6.8	10×16	0.24	222.4	62	ULD2W6R8MPD
	8.2	10×20	0.24	247.6	88	ULD2W8R2MPD
	10	10×20	0.24	280	92	ULD2W100MPD
	15	12.5×20	0.24	370	140	ULD2W150MHD
	22	12.5×25	0.24	496	240	ULD2W220MHD
	22	16×20	0.24	496	292	ULD2W220MHD6
	27	16×20	0.24	586	305	ULD2W270MHD
	33	16×25	0.24	694	392	ULD2W330MHD
	33	18×20	0.24	694	312	ULD2W330MHD6
47	18×25	0.24	946	480	ULD2W470MHD	
68	18×30.5	0.24	1324	520	ULD2W680MHD	

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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