## **ALUMINUM ELECTROLYTIC CAPACITORS**



Chip Type, High Voltage. High Reliability.



- Chip type, High voltage and High Reliability.
- Load life of 4000 hours at +125°C.
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

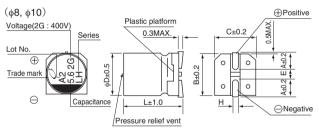




### ■Specifications

Item	Performance Characteristics								
Category Temperature Range	-40 to +125°C								
Rated Voltage Range	160 to 450V								
Rated Capacitance Range	2.2 to 27μF	2.2 to 27µF							
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.04CV+100 (μA).								
	Measurement frequency : 120Hz at 20°C								
Tangent of loss angle (tan δ)	Rated voltage (V) 160 20	0	250	400	450				
	tan δ (MAX.) 0.20 0.2	20	0.25	0.25	0.30				
			Meas	surement	frequenc	y : 120Hz			
	Rated voltage (V)	160	200	250	400	450			
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.) Z-40°C / Z+20°C	6	6	10	10	15			
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 4000 hours at 125°C.					Capacitance change tan δ Leakage current		:30% of the initial capacita r less than the intial speci an or equal to the initial sp	ied value
Shelf Life	After storing the capacitors under no load at 125°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.								
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the characteristic requirements listed at right when they are removed from the plate.		Capacitance change tan δ Leakage current		Less that	±10% of the initial capacite an or equal to the initial sp an or equal to the initial sp	ecified value		
Marking	Black print on the case top.								

### ■Chip Type



			(mm)	
∮D×L	8×10	10 × 10	10 × 13.5	
Α	2.9	3.2	3.2	
В	8.3	10.3	10.3	
С	8.3	10.3	10.3	
Е	3.1	4.5	4.5	
L	10	10	13.5	
Н	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1	

Voltage					
V	160	200	250	400	450
Code	2C	2D	2F	2G	2W

### • Frequency coefficient of rated ripple current

	occincion or rated approvement						
Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more		
Coefficient	0.70	1.00	1.17	1.36	1.50		

# Type numbering system (Example : 400V 5.6μF) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 U L H 2 G 5 R 6 M N L 1 G S Taping code Configuration Capacitance tolerance (±20%) Rated capacitance (5.6μF) Rated voltage (400V) Series name Type



### ■ 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) (125°C/120Hz)	Part Number
	12	8×10	0.20	176.8	45	ULH2C120MNL1GS
160 (2C)	18	10×10	0.20	215.2	60	ULH2C180MNL1GS
, , ,	27	10×13.5	0.20	272.8	65	ULH2C270MNL1GS
	10	8×10	0.20	180	45	ULH2D100MNL1GS
200 (2D)	15	10×10	0.20	220	60	ULH2D150MNL1GS
(== /	22	10×13.5	0.20	276	65	ULH2D220MNL1GS
	7.5	8×10	0.25	175	30	ULH2E7R5MNL1GS
250 (2E)	12	10×10	0.25	220	45	ULH2E120MNL1GS
(,	15	10×13.5	0.25	250	50	ULH2E150MNL1GS
	3.3	8×10	0.25	152.8	30	ULH2G3R3MNL1GS
400 (2G)	5.6	10×10	0.25	189.6	45	ULH2G5R6MNL1GS
(= 2.7	7.5	10×13.5	0.25	220	50	ULH2G7R5MNL1GS
	2.2	8×10	0.30	139.6	20	ULH2W2R2MNL1GS
450 (2W)	3.9	10×10	0.30	170.2	35	ULH2W3R9MNL1GS
,,	5.6	10×13.5	0.30	200.8	40	ULH2W5R6MNL1GS

For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

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UV2G3R3M0810VG EMK1VM101FB0D00R RVT2A4R7M0605 MAL214097402E3 MAL215375471E3 MAL224699909E3

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