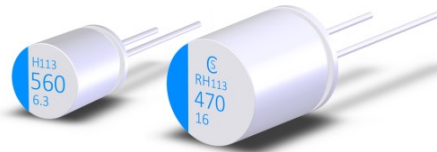


# CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



## URH Series

- Low ESR at a high frequency ranged
- High ripple current capability
- 2,000 hours at 125°C



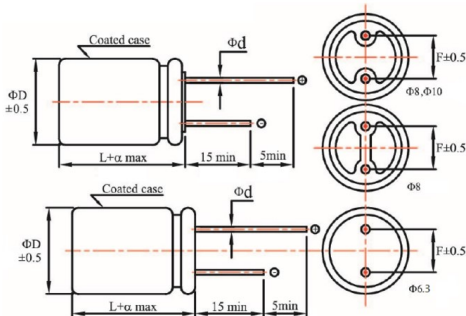
### ◆ SPECIFICATIONS

Item	Performance Characteristics								
Category Temperature Range	-55 ~ +125°C								
Working Voltage Range	2.5 ~ 25Vdc								
Surge Voltage	Rated Voltage × 1.15								
Capacitance Tolerance	M: ±20% (at 25°C and 120Hz)								
ESR	See the standard ratings table (at 25°C, 100~300KHz)								
Dissipation Factor (Tanδ)	See the standard ratings table (at 25°C, 120Hz)								
Leakage Current ※1	See the standard ratings table (Impress the rated voltage for 2 minutes)								
Low Temperature Characteristics Impedance Ratio	Z(-25°C)/Z(+25°C) ≤ 1.15 at 100KHz Z(-55°C)/Z(+25°C) ≤ 1.25 at 100KHz								
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage for 2,000 hours at 125°C. <table border="1"> <tr> <td>Capacitance change</td> <td>≤ ±20% of the initial value</td> </tr> <tr> <td>ESR</td> <td>≤ 150% of the specified value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≤ 150% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ specified value</td> </tr> </table>	Capacitance change	≤ ±20% of the initial value	ESR	≤ 150% of the specified value	Dissipation factor(tanδ)	≤ 150% of the specified value	Leakage current	≤ specified value
Capacitance change	≤ ±20% of the initial value								
ESR	≤ 150% of the specified value								
Dissipation factor(tanδ)	≤ 150% of the specified value								
Leakage current	≤ specified value								
Damp Heat (Steady State)	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 60°C 90 to 95% RH. <table border="1"> <tr> <td>Capacitance change</td> <td>≤ ±20% of the initial value</td> </tr> <tr> <td>ESR</td> <td>≤ 150% of the specified value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≤ 150% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ specified value</td> </tr> </table>	Capacitance change	≤ ±20% of the initial value	ESR	≤ 150% of the specified value	Dissipation factor(tanδ)	≤ 150% of the specified value	Leakage current	≤ specified value
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ESR	≤ 150% of the specified value								
Dissipation factor(tanδ)	≤ 150% of the specified value								
Leakage current	≤ specified value								
Others	Conforms to JIS-C-5101-26 (2012)								

※1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C.

※2 ESR should be measured at both of the terminal ends closest to the capacitor body.

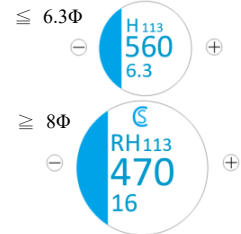
### ◆ DIMENSIONS (mm)



### ◆ LEAD

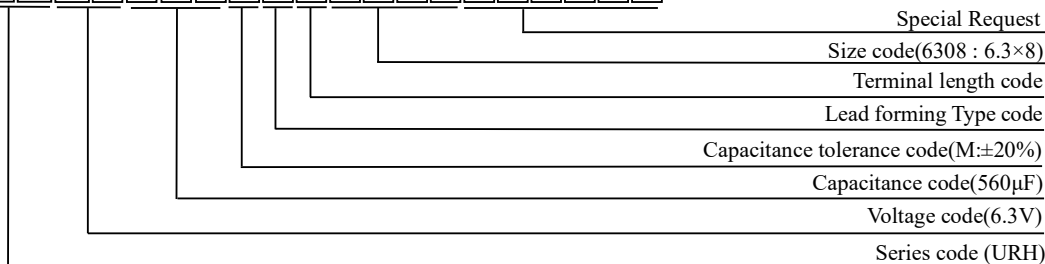
ΦD	6.3	6.3	8	8	10
Φd	0.6	0.6	0.6	0.6	0.6
L	8	11	8	11~20	12~20
α	1	1.5	1	1.5	1.5
F	2.5	2.5	3.5	3.5	5.0

### ◆ MARKING



### ◆ PART NUMBER SYSTEM ( Example : 6.3V 560µF )

U R H 0 J 5 6 1 M N N 6 3 0 8



# CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



## URH Series

### ◆ STANDARD RATINGS

WV (Vdc)	Cap ( $\mu$ F)	Case Size (mm) $\Phi$ D×L	ESR 100~300KHz (m $\Omega$ max)	Rated Ripple current (mArms max)		Tan $\delta$ max	Leakage Current ( $\mu$ A max)	Part Number
				$\leq 105^{\circ}\text{C}$	105~125 $^{\circ}\text{C}$			
2.5 (0E)	680	8×11	13	4520	1430	0.12	340	URH0E681MNN0811U
	820	8×11	13	4520	1430	0.12	410	URH0E821MNN0811U
4.0 (0G)	560	8×11	13	4520	1430	0.12	448	URH0G561MNN0811U
	680	8×11	13	4520	1430	0.12	544	URH0G681MNN0811U
	1200	10×12	12	5440	1720	0.12	960	URH0G122MNN1012U
6.3 (0J)	470	8×11	13	4520	1430	0.12	592	URH0J471MNN0811U
	560	6.3×8	8	4700	1490	0.12	706	URH0J561MNN6308
	560	8×11	13	4520	1430	0.12	706	URH0J561MNN0811U
	820	6.3×8	13	4520	1430	0.12	1033	URH0J821MNN6308
	820	10×12	12	5440	1720	0.12	1033	URH0J821MNN1012U
10 (1A)	120	8×8	35	2560	810	0.12	300	URH1A121MNN0808U
	330	8×11	16	3950	1250	0.12	660	URH1A331MNN0811U
	390	8×11	16	3950	1250	0.12	780	URH1A391MNN0811U
	560	10×12	13	5230	1655	0.12	1120	URH1A561MNN1012U
	1000	10×12	13	5230	1200	0.12	2000	URH1A102MNN1012U
16 (1C)	82	8×8	35	2560	810	0.12	300	URH1C820MNN0808U
	150	8×8	35	2560	810	0.12	480	URH1C151MNN0808U
	180	8×11	18	3640	1150	0.12	576	URH1C181MNN0811U
	220	8×11	18	3640	1150	0.12	704	URH1C221MNN0811U
	270	6.3×11	12	2820	840	0.12	864	URH1C271MNN6311
	270	8×11	18	3640	1150	0.12	864	URH1C271MNN0811U
	270	10×12	16	4720	1490	0.12	864	URH1C271MNN1012U
	330	10×12	16	4720	1490	0.12	1056	URH1C331MNN1012U
	390	10×12	16	4720	1490	0.12	1248	URH1C391MNN1012U
	470	10×12	16	4720	1490	0.12	1504	URH1C471MNN1012U
	820	10×12	12	5400	1630	0.12	2624	URH1C821MNN1012U
	1500	8×20	12	6100	2240	0.12	4800	URH1C152MNN0820U
2200	10×20	15	6100	2250	0.12	3520	URH1C222MNN1020U	
20 (1D)	1500	10×20	16	5000	1700	0.12	6000	URH1D152MNN1020U
25 (1E)	120	8×11	27	2300	890	0.12	600	URH1E121MNN0811U
	180	10×12	25	2800	1080	0.12	900	URH1E181MNN1012U
	470	10×12	14	4720	1490	0.12	2350	URH1E471MNN1012U