





**URP Series**

◆ **Standard Ratings**

Rated Voltage (Vdc)	Rated Capacitance (μF)	Case Size ΦD×L (mm)	ESR 100~300KHz (mΩ max)	Rated Ripple Current 105°C,100KHz (mArms max)	Tan δ max	Leakage Current (μA max)	Part Number
2.5(0E)	680	8×11	12	4520	0.12	340	URP0E681MNN0811U
	820	8×11	12	5440	0.12	410	URP0E821MNN0811U
4(0G)	560	8×11	12	4520	0.12	448	URP0G561MNN0811U
	820	10×12	12	5040	0.12	656	URP0G821MNN1012U
	1200	10×12	12	5040	0.12	960	URP0G122MNN1012U
6.3(0J)	270	8×8	12	3600	0.12	340	URP0J271MNN0808U
	470	8×8	12	4770	0.12	592	URP0J471MNN0808U
	680	10×12	12	5040	0.12	857	URP0J681MNN1012U
	820	10×12	12	5040	0.12	1033	URP0J821MNN1012U
	1000	10×12	12	5040	0.12	1260	URP0J102MNN1012U
	1200	8×11	12	5040	0.12	1512	URP0J122MNN0811U
	1500	8×11	12	5040	0.12	1890	URP0J152MNN0811U
10(1A)	1500	10×12	12	5560	0.12	1890	URP0J152MNN1012U
	220	8×8	12	4700	0.12	440	URP1A221MNN0808U
	270	8×11	12	4420	0.12	540	URP1A271MNN0811U
	330	8×8	12	4700	0.12	660	URP1A331MNN0808U
	470	8×8	12	5100	0.12	940	URP1A471MNN0808U
	470	10×12	12	5300	0.12	940	URP1A471MNN1012U
	560	8×11	12	4500	0.12	1260	URP1A561MNN0811U
	560	10×12	12	5300	0.12	1120	URP1A561MNN1012U
	680	8×11	12	4500	0.12	1360	URP1A681MNN0811U
	680	10×12	12	5300	0.12	1360	URP1A681MNN1012U
	820	8×11	12	5000	0.12	1640	URP1A821MNN0811U
	1000	10×12	12	5300	0.12	2000	URP1A102MNN1012U
	1200	10×12	12	5300	0.12	2400	URP1A122MNN1012U
16(1C)	100	8×11	12	4850	0.12	320	URP1C101MNN0811U
	180	8×8	12	3840	0.12	576	URP1C181MNN0808U
	180	8×11	12	4850	0.12	576	URP1C181MNN0811U
	270	8×8	12	4300	0.12	864	URP1C271MNN0808U
	270	8×11	12	5000	0.12	864	URP1C271MNN0811U
	270	10×12	12	5300	0.12	864	URP1C271MNN1012RU
	330	8×8	12	4700	0.12	1056	URP1C331MNN0808U
	330	8×11	12	5000	0.12	1056	URP1C331MNN0811U
	330	10×12	12	5300	0.12	1056	URP1C331MNN1012U
	470	8×8	12	4700	0.12	1504	URP1C471MNN0808U
	470	8×11	12	5300	0.12	1504	URP1C471MNN0811U
	470	8×11	11	5400	0.12	1504	URP1C471MNN0811ERU
	470	10×12	12	5300	0.12	1504	URP1C471MNN1012U
	470	10×12	10	6100	0.12	1504	URP1C471MNN1012ERU
	560	8×11	12	5000	0.12	1792	URP1C561MNN0811U
	560	10×12	12	5300	0.12	1792	URP1C561MNN1012U
	680	8×11	12	5000	0.12	2176	URP1C681MNN0811U
	680	10×12	12	5300	0.12	2176	URP1C681MNN1012U
	820	8×11	12	5000	0.12	1312	URP1C821MNN0811U
	820	10×12	12	5300	0.12	2624	URP1C821MNN1012U
820	10×12	11	5400	0.12	2634	URP1C821MNN1012ERU	
1000	10×12	12	5400	0.12	3200	URP1C102MNN1012U	
1200	10×12	12	5400	0.12	3840	URP1C122MNN1012U	

## PART NUMBER SYSTEM

### ◆ RADIAL LEAD TYPE

Series	Rated Voltage	Capacitance	Tolerance	Lead Forming Type	Lead Length	Case Dimension	Special Request
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

#### (1) Series

Series	DIP	UPS	UPR	UUL	UPE	URP	URH	UGP	UGV	UGS	UPC
	SMD	VSG	VSP	VSU	VSE						

#### (2) Rated Voltage

Code	0E	0J	6K	7H	1A	1B	AG	1C	1D	1P	1E	1F	1V	1H	1J	2A
WV	2.5	6.3	6.8	7.5	10	12	14	16	20	22	25	30	35	50	63	100

#### (3) Capacitance

Code	6R8	100	180	560	101	181	561	102	182
μF	6.8	10	18	56	100	180	560	1000	1800

#### (4) Capacitance Tolerance

Code	J	Q	R	K	V	M	H
%	± 5	+30 / -10	+20 / -0	± 10	+20 / -10	± 20	+20 / -5

#### (5) Lead Type

Code	C	P
Description	Cutting	Taping
Drawing	Fig 1	Fig 2

#### (6) Lead Length (Cut / Formed lead)

Code	3	4	U	7	D	X	R	B	E	G	2	M	T	N
Length	3.5	4.5	5.5	7	4	2.3	2.5	2.8	3.1	3.3	2.5	3.5	3.8	+20mm min
Tolerance	±0.5			±0.2			±0.3			-15mm min				

#### Taping Code

Code	Z	2	3	7	5	S
Lead Pitch: +0.8/-0.2	2.0	2.5	3.5	3.5	5.0	5.0

#### (7) Case Dimension

DIP Code	0508	6305	6308	6311	0807	0808	0811	0816	0820	1012	1016	1020
Size	5×8	6.3×5	6.3×8	6.3×11	8×7	8×8	8×11	8×16	8×20	10×12	10×16	10×20
SMD Code	5057	6343	6357	6377	6309	0867	0897	08C7	1077	10C4		
Size	5×5.7	6.3×4.3	6.3×5.7	6.3×7.7	6.3×9	8×6.7	8×9.7	8×12.7	10×7.7	10×12.4		

#### (8) Special Request

Code	R	F	L	D
Description	High Rated ripple current	Endurance	Low Leakage Current	Low Dissipation Factor
Code	U	E	---	---
Description	Convex Rubber	Low ESR	---	---

# CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



## ◆ MARKING AND DATE CODE

Trade mark(Chinsan)

Trade Mark "CS"	Chinsan Solid Capacitor, Show on Dimension $\geq 8 \Phi$																																																						
Code (Date Code)	<p>(1)DAY</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Code</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> <tr> <td>Week</td> <td>The first week</td> <td>The second week</td> <td>The third week</td> <td>The fourth week</td> <td>The fifth week</td> </tr> </table> <p>(2)Month</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Code</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> <tr> <td>Month</td> <td>Jan</td> <td>Feb</td> <td>Mar</td> <td>Apr</td> <td>May</td> <td>Jun</td> </tr> <tr> <th>Code</th> <th>7</th> <th>8</th> <th>9</th> <th>X</th> <th>Y</th> <th>Z</th> </tr> <tr> <td>Month</td> <td>July</td> <td>Aug</td> <td>Sep</td> <td>Oct</td> <td>Nov</td> <td>Dec</td> </tr> </table> <p>(3)Year</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Code</th> <th>9</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> <tr> <td>Year</td> <td>2019</td> <td>2020</td> <td>2021</td> <td>2022</td> <td>2023</td> <td>2024</td> </tr> </table>	Code	1	2	3	4	5	Week	The first week	The second week	The third week	The fourth week	The fifth week	Code	1	2	3	4	5	6	Month	Jan	Feb	Mar	Apr	May	Jun	Code	7	8	9	X	Y	Z	Month	July	Aug	Sep	Oct	Nov	Dec	Code	9	0	1	2	3	4	Year	2019	2020	2021	2022	2023	2024
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## ◆ LEAD FORMING TYPE

Type	Part Number	Dimensions (Unit: mm)																	
		$\Phi D$	F	$t$	L (Part number for lead length and pitch for taping)														
					3	4	U	7	D	X	R	B	E	G	2	M	T		
					3.5	4.5	5.5	7	4	2.3	2.5	2.8	3.1	3.3	2.5	3.5	3.8		
$\pm 0.5$						$\pm 0.2$						$\pm 0.3$							
Cut	C	5	2	----															
		6.3	2.5	----															
		8	3.5	----															
		10	5	----															

## ◆ TAPING

Figure 1	Symbol	Tolerance	Φ 5		Φ 6.3		Φ 8	
			PS	P5	PS	P5	PS	P5
	Φd	±0.05	0.45		0.45/0.6		0.6	
	P	±0.1	12.7		12.7		12.7	
	P0	±0.2	12.7		12.7		12.7	
	P1	±0.5	3.85		3.85		3.85	
	P2	±1.0	6.35		6.35		6.35	
	F	0.8 -0.2	5		5		5	
	H	±0.5	17.5	18.5	17.5	18.5	17.5	18.5
	H0	±0.5	16		16		16	
	W	±0.5	18		18		18	
	W0	Minimum	12.5		12.5		12.5	
	D0	±0.2	4		4		4	
	t	±0.2	0.7		0.7		0.7	

Figure 2	Symbol	Tolerance	Φ 6.3	Φ 8			Φ 10		
			P2	P3	H3	P7	P5	H5	J5
	Φd	±0.05	0.45/0.6	0.6			0.6		
	P	±0.1	12.7	12.7			12.7		
	P0	±0.2	12.7	12.7			12.7		
	P1	±0.5	5.1	4.6			3.85		
	P2	±1.0	6.35	6.35			6.35		
	F	+0.8 -0.2	2.5	3.5			5		
	H	±0.5	118.5	18.5	20	17.5	18.5	20	21
	H0	±0.5	-	-			-		
	W	±0.5	18	18			18		
	W0	Minimum	12.5	12.5			12.5		
	D0	±0.2	4	4			4		
	t	±0.2	0.7	0.7			0.7		

Figure 3	Symbol	Tolerance	Φ 5
			PZ
	Φd	±0.05	0.45
	P	±0.1	12.7
	P0	±0.2	12.7
	P1	±0.5	5.35
	P2	±1.0	6.35
	F	+0.8 -0.2	2.0
	H	±0.5	18.5
	H0	±0.5	-
	W	±0.5	18
	W0	Minimum	12.5
	D0	±0.2	4
	t	±0.2	0.7

### Packing quantity

Size		Inner Box	Carton Box
ØD	L	Q'ty (Pes.)	Q'ty (Pes.)
5	8~12	2500	12500
	5.5	8~12	2200
6.3	5~12	2000	10000
	16	2000	10000
8	6~12	1000	5000
	16~22	1200	6000
10	7~12	800	4000
	16~22	800	4000