



UPR Series

◆ **Standard Ratings**

Rated Voltage (Vdc)	Rated Capacitance (μF)	Case Size ΦD×L (mm)	ESR 100~300KHz (mΩmax)	Rated Ripple Current 105°C,100KHz (mA rms max)	Tanδ max	Leakage Current (μA max)	Part Number
2.5(0E)	220	5×8	8	4340	0.10	500	UPR0E221MNN0508
	330	5×8	8	4340	0.10	500	UPR0E331MNN0508
	560	5×8	8	4340	0.10	500	UPR0E561MNN0508
	560	6.3×8	8	4700	0.10	500	UPR0E561MNN6308
	680	6.3×8	8	4900	0.10	500	UPR0E681MNN6308
	820	6.3×8	8	5000	0.10	513	UPR0E821MNN6308
	820	6.3×8	5	5900	0.10	513	UPR0E821MNN6308E
4(0G)	560	6.3×8	8	4700	0.10	560	UPR0G561MNN6308
	560	6.3×8	7	5600	0.1	560	UPR0G561MNN6308RU
6.3(0J)	220	5×8	11	3200	0.10	300	UPR0J221MNN0508
	220	6.3×8	9	3900	0.10	500	UPR0J221MNN6308
	270	5×8	8	4050	0.10	500	UPR0J271MNN0508
	270	6.3×8	8	4180	0.10	500	UPR0J271MNN6308
	330	5×8	8	4050	0.10	500	UPR0J331MNN0508
	330	5×8	15	3390	0.1	500	UPR0J331MNN0508E
	330	6.3×8	8	4700	0.10	500	UPR0J331MNN6308
	390	6.3×8	8	4700	0.10	530	UPR0J391MNN6308
	470	6.3×8	8	4700	0.10	592	UPR0J471MNN6308(U)
	470	6.3×8	7	5600	0.10	592	UPR0J471MNN6308R
	560	5×8	7	4180	0.10	500	UPR0J561MNN0508
	560	6.3×8	8	4700	0.10	706	UPR0J561MNN6308
	560	6.3×8	7	5600	0.10	706	UPR0J561MNN6308E
	680	6.3×8	8	4700	0.10	856	UPR0J681MNN6308
820	6.3×8	8	4700	0.10	1033	UPR0J821MNN6308	
1000	6.3×12	8	6100	0.10	1260	UPR0J102MNN6312	
10(1A)	100	5×8	35	2200	0.10	300	UPR1A101MNN0508
	150	6.3×8	24	2820	0.10	480	UPR1A151MNN6308
	220	6.3×8	8	4700	0.10	550	UPR1A221MNN6308
	270	6.3×8	8	4700	0.10	540	UPR1A271MNN6308
	330	6.3×8	8	4700	0.10	660	UPR1A331MNN6308
16(1C)	39	6.3×5	50	1620	0.12	312	UPR1C390MNN6305
	100	6.3×5	24	2490	0.10	320	UPR1C101MNN6305
	100	6.3×8	10	4680	0.10	320	UPR1C101MNN6308
	220	6.3×8	10	4700	0.12	704	UPR1C221MNN6308U
	220	8×6	12	4150	0.12	704	UPR1C221MNN0806
	270	6.3×8	10	5080	0.10	864	UPR1C271MNN6308
	330	6.3×12	10	5000	0.10	1056	UPR1C331MNN6312
	470	6.3×12	11	5300	0.12	200	UPR1C471MNN6312L
	470	6.3×13	11	5300	0.12	1504	UPR1C471MNN6313SU



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)

Series: UPE110

Code: 270

Rated Capacitance: 270

Rated Voltage: 16

Negative Polarity

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%; text-align: center;"> <tr> <th>Code</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> <tr> <th>Week</th> <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%; text-align: center;"> <tr> <th>Code</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> <tr> <th>Month</th> <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> <th>Month</th> <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%; text-align: center;"> <tr> <th>Code</th> <th>9</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> <tr> <th>Year</th> <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)																	
		ΦD	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		
± 0.5						± 0.2						± 0.3							
Cut	C	5	2	----															
		6.3	2.5	----															
		8	3.5	----															
		10	5	----															

CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



◆ 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