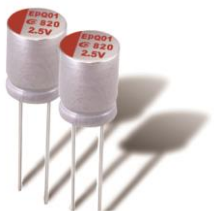
ARCP Series Charger

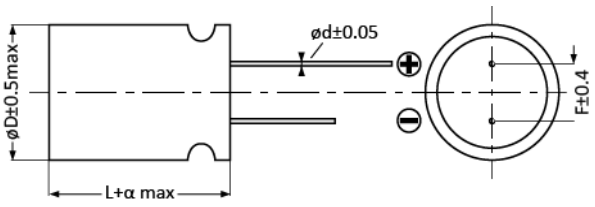


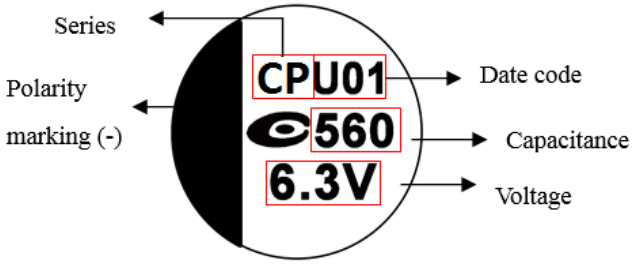
- Rated voltage: 6.3~35Vdc
- Endurance 2000hrs at 105℃
- Suitable for AC-DC DC-DC converters, voltage regulators and decoupling applications
- RoHS Compliant

Specification

Category Temperature Range	-55 to 105℃	Rated Voltage Range	6.3 to 35Vdc
Rated Capacitance Range	100 to 1500 (μF)	Capacitance Tolerance	±20% (M)
Surge Voltage	Rated voltage X 1.15 (at 105°C)	Dissipation Factor	0.1 max. (at 20°C 120Hz)
Leakage Current	Shall not exceed values shown in standard ratings. (at 20°C after 2 mins.)		
Endurance	105℃, 2000hrs, rated voltage applied		
	Appearance	No significant damage	
	Capacitance Change	≦ ±20% of the initial value	
	DF(tanδ)	≦ 150% of the initial specified value	
	ESR	≦ 150% of the initial specified value	
	Leakage current	≦ The initial specified value	
Damp Heat (Steady State)	60℃, 90 to 95% RH, 1000hrs, no voltage applied		
	Appearance	No significant damage	
	Capacitance Change	≦ ±20% of the initial value	
	DF(tanδ)	≦ 150% of the initial specified value	
	ESR	≦ 150% of the initial specified value	
	Leakage current	≦ The initial specified value	
Surge Voltage	2,000 cycles and each one includes charge with surge voltage specified at 105°C for 0.5min through a protective resistor (R=1kΩ) and discharge for 5.5min.		
	Appearance	No significant damage	
	Capacitance Change	≦ ±20% of the initial value	
	DF(tanδ)	≦ 150% of the initial specified value	
	ESR	≦ 150% of the initial specified value	
	Leakage current	≦ The initial specified value	

Dimensions and Marking





SIZE Code	øD±0.5 max	L	α	ød ±0.05	F±0.4
05X7	5.0	7.0	-0.5~1.0	0.5	2.0
05X8	5.0	8.0	-0.5~1.0	0.5	2.0
05A0	5.0	10.0	-0.5~1.0	0.5	2.0
05A1	5.0	11.0	-0.5~1.0	0.5	2.0
06X6	6.3	6.0	-0.5~1.0	0.45	2.5
06X8	6.3	8.0	-0.5~1.0	0.6	2.5
06A0	6.3	10.0	-0.5~1.0	0.6	2.5
06A1	6.3	11.0	-0.5~1.0	0.6	2.5
06A4	6.3	14.0	-0.5~1.0	0.5	2.5
08X8	8.0	8.0	-0.5~1.0	0.6	3.5
08A2	8.0	12.0	-0.5~1.0	0.6	3.5
08A6	8.0	16.0	-0.5~1.0	0.6	3.5
10A2	10.0	12.0	-0.5~1.0	0.6	5.0

ARCP Series Power

Standard Ratings

WV/Vdc (SV)	Cap (µF)	Size Code	Leakage Current (µA)	ESR (mΩmax/20%, 100k to300kHz)	Rated Ripple Current (mArms/ 105℃ /100kHz)	Part No.
6.3 (7.2)	270	05X7	340	12	3,500	6R3ARCP271M05X7
	330	05X8	500	12	4,050	6R3ARCP331M05X8
	390	05X8	500	15	4,510	6R3ARCP391M05X8
	470	05X8	592	12	4,050	6R3ARCP471M05X8
	470	06X6	592	20	2,970	6R3ARCP471M06X6
	470	06X8	592	12	4,700	6R3ARCP471M06X8
	560	06X8	705	12	4,700	6R3ARCP561M06X8
	680	05A1	857	15	3,200	6R3ARCP681M05A1
	680	06X8	857	12	3,900	6R3ARCP681M06X8
	820	06X8	1,033	12	4,700	6R3ARCP821M06X8
	1000	06A0	1,260	10	4,700	6R3ARCP102M06A0
	1500	06A4	1,890	10	6,100	6R3ARCP152M06A4
7.5 (8.6)	500	05X8	750	12	3,500	7R3ARCP501M05X8
	680	06X8	1,020	12	4,780	7R3ARCP681M06X8
	820	06A0	1,230	11	4,840	7R3ARCP821M06A0
	820	06A1	1,230	11	4,840	7R3ARCP821M06A1
	1000	06A1	1,500	11	4,700	7R3ARCP102M06A1
	1500	06A4	2,250	10	6,100	7R3ARCP152M06A4
12 (13.8)	470	06A0	1,128	12	3,900	120ARCP471M06A0
	560	06A0	1,344	12	3,900	120ARCP561M06A0
	680	06A1	1,632	18	3,900	120ARCP681M06A1
	820	06A1	1,968	15	4,000	120ARCP821M06A1
16 (18.4)	150	05A0	480	15	3,700	160ARCP151M05A0
	330	05A1	1,056	20	2,670	160ARCP331M05A1
	330	06X8	1,056	20	2,800	160ARCP331M06X8
	470	06A0	1,504	16	4,000	160ARCP471M06A0
	470	06A1	1,504	16	4,000	160ARCP471M06A1
	560	06A1	1,792	20	3,500	160ARCP561M06A1
	680	06A4	2,176	11	4,500	160ARCP681M06A4
25 (28.8)	390	06A4	1,950	16	3,550	250ARCP391M06A4
	470	06A4	2,350	15	3,800	250ARCP471M06A4
	680	08A6	3,400	14	5,000	250ARCP681M08A6
	680	10A2	3,400	14	5,100	250ARCP681M10A2
35 (40.3)	100	06X8	700	35	2,350	350ARCP101M06X8
	120	08X8	840	30	2,800	350ARCP121M08X8
	150	08A2	1,050	25	3,000	350ARCP151M08A2
	220	08A2	1,540	25	2,890	350ARCP221M08A2

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