

ARUP Series Power

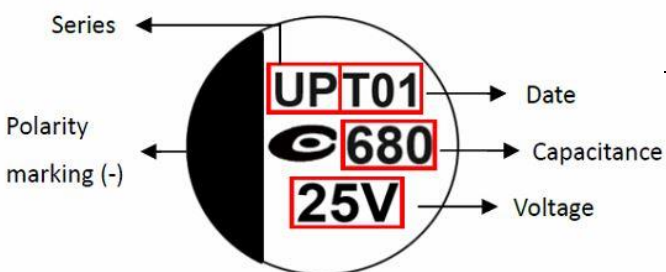
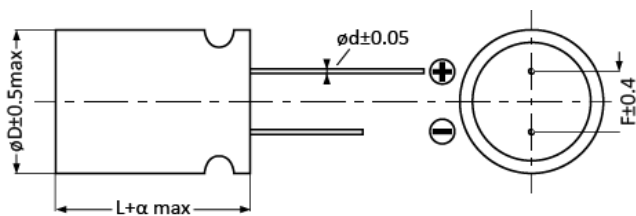
- High temperature, Long life
- Rated voltage: 6.3~35Vdc
- Endurance 2000hrs at 125°C
- Suitable for DC-DC converters, voltage regulators and decoupling applications
- RoHS Compliant



Specification

Category Temperature Range	-55 to 125°C	Rated Voltage Range	6.3 to 35Vdc
Rated Capacitance Range	68 to 2200 (μF)	Capacitance Tolerance	±20% (M)
Surge Voltage	Rated voltage X 1.15 (at 125°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	125°C, 2000hrs, rated voltage applied		
	Appearance	No significant damage	
	Capacitance Change	≤ ±20% of the initial value	
	DF(tanδ)	≤ 200% of the initial specified value	
	ESR	≤ 200% of the initial specified value	
	Leakage current	≤ The initial specified value	
Damp Heat (Steady State)	60°C, 90 to 95% RH, 1000hrs, voltage applied		
	Appearance	No significant damage	
	Capacitance Change	≤ ±20% of the initial value	
	DF(tanδ)	≤ 200% of the initial specified value	
	ESR	≤ 200% 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 125°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)	≤ 200% of the initial specified value	
	ESR	≤ 200% 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
06X8	6.3	8	-0.5~1	0.6	2.5
08X8	8	8	-0.5~1	0.6	3.5
08A2	8	12	-0.5~1	0.6	3.5
08A6	8	16	-0.5~1	0.6	3.5
10A2	10	12	-0.5~1	0.6	5
10A6	10	16	-0.5~1	0.6	5
10B0	10	20	-0.5~1	0.6	5

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Standard Ratings

WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	ESR (mΩmax/20°C, 100k to 300kHz)	Rated Ripple Current (mArms/100kHz)		Part No.
					≤ 105°C	105°C < ≤ 125°C	
6.3 (7.2)	680	06X8	857	9	4,000	1,600	6R3ARUP681M06X8
	1000	08A2	1,260	8	5,600	2,240	6R3ARUP102M08A2
10 (11.5)	1000	08A2	2,000	8	5,600	2,240	100ARUP102M08A2
16 (18.4)	470	08A2	1,504	14	4,500	1,800	160ARUP471M08A2
	680	08A2	2,176	14	4,500	1,800	160ARUP681M08A2
	820	08A2	2,624	14	4,500	1,800	160ARUP821M08A2
	1000	10A2	3,200	12	5,400	2,160	160ARUP102M10A2
	1500	10A6	4,800	10	6,000	2,400	160ARUP152M10A6
	2200	10B0	7,040	10	6,600	2,640	160ARUP222M10B0
25 (28.8)	470	08A2	2,350	16	4,250	1,700	250ARUP471M08A2
	680	08A6	3,400	14	4,700	1,880	250ARUP681M08A6
35 (40.3)	68	08X8	476	28	2,600	1,040	350ARUP680M08X8
	100	08X8	700	28	2,600	1,040	350ARUP101M08X8
	220	08A2	1,540	26	2,950	1,180	350ARUP221M08A2