

ARHA Series High Voltage

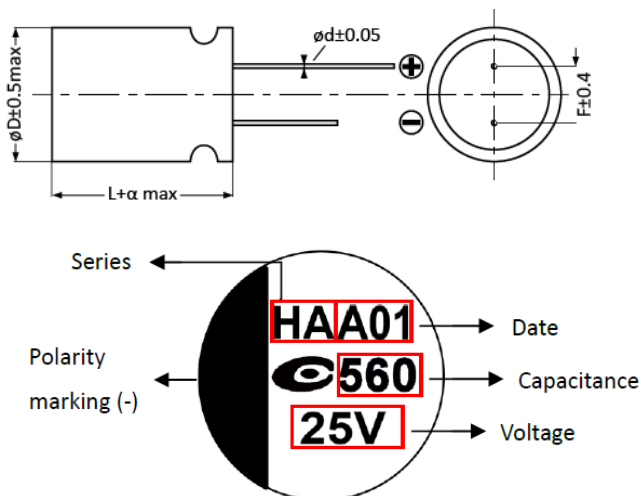
- Rated Voltage: 25~100Vdc
- Endurance 5000hrs at 105°C
- Suitable for AC-DC、DC-DC converters, voltage regulators and decoupling applications
- RoHS Compliant



Specification

Category Temperature Range	-55 to 105°C	Rated Voltage Range	25 to 100Vdc
Rated Capacitance Range	22 to 1500 (μF)	Capacitance Tolerance	±20% (M)
Surge Voltage	Rated voltage x1.15(at 105°C)	Dissipation Factor	0.12max.(at 20°C 120Hz)
Leakage Current	Shall not exceed values shown in standard ratings.		
Endurance	105°C, 5000hrs, 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°C, 90 to 95% RH, 1000hrs, 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	1,000 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	$\phi D \pm 0.5 \text{ max}$	L	α	$\phi d \pm 0.05$	F ± 0.4
06X5	6.3	5.0	-0.5~1.0	0.6	2.5
06X8	6.3	8.0	-0.5~1.0	0.6	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
08B0	8.0	20.0	-0.5~1.0	0.6	3.5
10A2	10.0	12.0	-0.5~1.0	0.6	5.0
10A6	10.0	16.0	-0.5~1.0	0.6	5.0
10B0	10.0	20.0	-0.5~1.0	0.6	5.0



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WV/Vdc (SV)	Cap (µF)	Size Code	Leakage Current (µA)	ESR (mΩmax/20°C, 100k to 300kHz)	Rated Ripple Current (mA rms/ 105°C/100kHz)	Part No.
25 (28.8)	82	06X8	410	28	2,700	250ARHA820M06X8
	100	08A2	500	22	3,600	250ARHA101M08A2
	220	08A2	1,100	16	4,650	250ARHA221M08A2
	330	08A2	1,650	16	4,650	250ARHA331M08A2
	470	08A2	2,350	16	4,650	250ARHA471M08A2
	560	10A2	2,800	14	5,100	250ARHA561M10A2
	680	08A6	3,400	14	5,000	250ARHA681M08A6
	680	10A2	3,400	14	5,100	250ARHA681M10A2
	820	08B0	4,100	13	5,100	250ARHA821M08B0
	1,000	10A6	5,000	13	5,200	250ARHA102M10A6
	1,500	10B0	7,500	13	5,300	250ARHA152M10B0
35 (40.3)	47	06X5	329	35	2,300	350ARHA470M06X5
	68	06X8	476	25	2,600	350ARHA680M06X8
	100	06X8	700	35	2,350	350ARHA101M06X8
	100	08X8	700	23	2,800	350ARHA101M08X8
	220	08A2	1,540	25	2,890	350ARHA221M08A2
	330	10A2	2,310	24	3,400	350ARHA331M10A2
	470	08B0	3,290	20	4,400	350ARHA471M08B0
	470	10A6	3,290	25	4,000	350ARHA471M10A6
	560	10A6	3,920	23	4,200	350ARHA561M10A6
	680	10B0	4,760	20	4,800	350ARHA681M10B0
50 (57.5)	120	08A2	1,200	28	2,620	500ARHA121M08A2
	180	10A2	1,800	28	3,100	500ARHA181M10A2
	220	10A2	2,200	28	3,100	500ARHA221M10A2
	390	10B0	3,900	23	3,800	500ARHA391M10B0
63 (72.5)	22	08X8	277	35	2,100	630ARHA220M08X8
	47	08A2	592	30	2,500	630ARHA470M08A2
	68	10A2	857	25	2,500	630ARHA680M10A2
	100	10A2	1,260	30	2,700	630ARHA101M10A2
	180	10A2	2,268	30	2,700	630ARHA181M10A2
80 (92)	22	08X8	352	40	1,700	800ARHA220M08X8
	47	10A2	752	32	2,100	800ARHA470M10A2
	82	10A2	1,312	32	2,200	800ARHA820M10A2
100 (115)	22	10A2	440	45	1,600	101ARHA220M10A2
	47	10A2	940	35	2,100	101ARHA470M10A2