

ARHE Series High Endurance

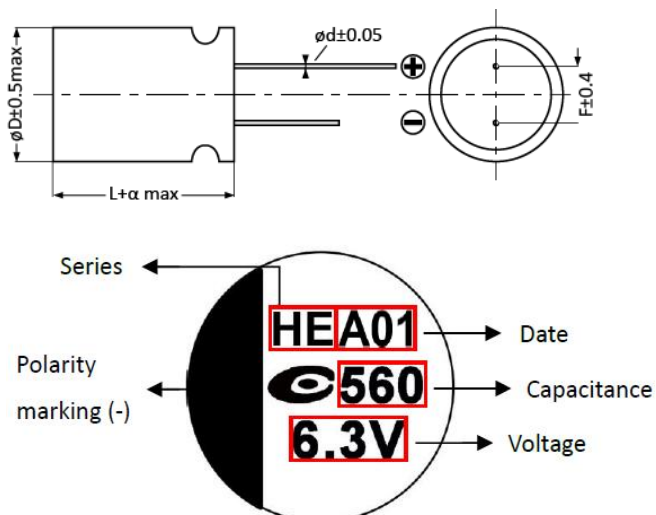
- Rated Voltage: 2.5~63Vdc
- Endurance 1000hrs at 125°C
- Suitable for AC-DC、DC-DC converters, voltage regulators and decoupling applications
- RoHS Compliant



Specification

Category Temperature Range	-55 to 125°C	Rated Voltage Range	2.5 to 63Vdc
Rated Capacitance Range	47 to 1500 (μF)	Capacitance Tolerance	±20% (M)
Surge Voltage	Rated voltage x1.15(at 125°C)	Dissipation Factor	0.12max.(at 20°C 120Hz)
Leakage Current	Shall not exceed values shown in standard ratings.		
Endurance	125°C, 1000hrs, 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)	≤ 200% of the initial specified value	
	ESR	≤ 200% 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 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)	≤ 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	$\phi d \pm 0.05$	$F \pm 0.4$
06X8	6.3	8.0	-0.5~1	0.6	2.5
06A0	6.3	10.0	-0.5~1	0.6	2.5
08X8	8.0	8.0	-0.5~1	0.6	3.5
08A2	8.0	12.0	-0.5~1	0.6	3.5
08A6	8.0	16.0	-0.5~1	0.6	3.5
08B0	8	20	-0.5~1	0.6	3.5
10A2	10.0	12.0	-0.5~1	0.6	5.0
10A6	10.0	16.0	-0.5~1	0.6	5.0
10B0	10.0	20.0	-0.5~1	0.6	5.0

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WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	ESR (mΩmax/20%, 100k to300kHz)	Rated Ripple Current (mArms/100kHz)		Part No.
					105°C	125°C	
2.5 (2.9)	820	06X8	500	7	5,000	2,000	2R5ARHE821M06X8
	1,200	06A0	600	7	5,200	2,080	2R5ARHE122M06A0
4 (4.6)	560	06X8	500	7	5,000	2,000	4R0ARHE561M06X8
6.3 (7.2)	560	06X8	705	10	4,000	1,600	6R3ARHE561M06X8
16 (18.4)	100	06X8	320	25	2,500	1,000	160ARHE101M06X8
	270	06X8	864	16	3,200	1,280	160ARHE271M06X8
	270	08X8	864	16	3,800	1,520	160ARHE271M08X8
	270	08A2	864	14	4,500	1,800	160ARHE271M08A2
	1,000	10A2	3,200	12	5,400	2,160	160ARHE102M10A2
25 (28.8)	100	06X8	500	20	2,800	1,120	250ARHE101M06X8
	180	08A2	900	16	4,300	1,720	250ARHE181M08A2
	220	08A2	1,100	16	4,300	1,720	250ARHE221M08A2
	330	08A2	1,650	16	4,300	1,720	250ARHE331M08A2
	470	08A2	2,350	16	4,300	1,720	250ARHE471M08A2
	560	08A6	2,800	14	4,700	1,880	250ARHE561M08A6
	560	10A2	2,800	14	4,700	1,880	250ARHE561M10A2
	680	08A6	3,400	14	4,700	1,880	250ARHE681M08A6
	680	10A2	3,400	14	4,700	1,880	250ARHE681M10A2
	820	08B0	4,100	14	5,100	2,040	250ARHE821M08B0
	1,000	10A6	5,000	14	5,100	2,040	250ARHE102M10A6
	1,500	10B0	7,500	14	5,400	2,160	250ARHE152M10B0
35 (40.3)	68	08X8	476	26	2,800	1,120	350ARHE680M08X8
	100	08X8	700	26	2,800	1,120	350ARHE101M08X8
	150	08A2	1,050	20	3,600	1,440	350ARHE151M08A2
	220	08A2	1,540	20	3,600	1,440	350ARHE221M08A2
	330	08A6	2,310	18	3,900	1,560	350ARHE331M08A6
	330	10A2	2,310	18	4,400	1,760	350ARHE331M10A2
	470	08B0	3,290	16	4,600	1,840	350ARHE471M08B0
	470	10A6	3,290	16	4,600	1,840	350ARHE471M10A6
	560	10A6	3,920	16	4,600	1,840	350ARHE561M10A6
	680	10B0	4,760	16	5,000	2,000	350ARHE681M10B0

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WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	ESR (mΩmax/20%, 100k to300kHz)	Rated Ripple Current (mArms/100kHz)		Part No.
					105°C	125°C	
50 (57.5)	47	08A2	470	25	3,000	1,200	500ARHE470M08A2
	68	08A2	680	25	3,000	1,200	500ARHE680M08A2
	150	08A6	1,500	20	3,600	1,440	500ARHE151M08A6
	180	10A2	1,800	25	3,300	1,320	500ARHE181M10A2
	220	10A2	2,200	25	3,300	1,320	500ARHE221M10A2
	390	10B0	3,900	18	4,000	1,600	500ARHE391M10B0
63 (72.5)	47	08A2	592	25	3,000	1,200	630ARHE470M08A2
	56	08A2	705	25	3,000	1,200	630ARHE560M08A2
	56	10A2	705	25	3,300	1,320	630ARHE560M10A2
	100	10A2	1,260	25	3,300	1,320	630ARHE101M10A2
	180	10A6	2,268	22	3,600	1,440	630ARHE181M10A6
	220	10B0	2,772	20	4,000	1,600	630ARHE221M10B0