

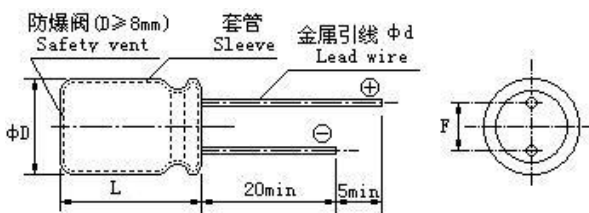
## EH

- Low Impedance
- Endurance 2000-4000 hours at 105°C
- Comply with the RoHS

## SPECIFICATIONS

Category Temperature	-40+105°C										
Voltage Range	6.3-100V.DC										
Capacitance Tolerance	±20%(120Hz,20°C)										
Leakage Current	I≤0.01CV(μA) or 3μA, whichever is greater (2 minutes)										
Dissipation Factor (120hz、20°C)	WV	6.3	10	16	25	35	50	63	80	100	
	tgδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08	
When nominal capacitance is over 1000 μF, tanδ shall be added 0.02 to the list value with increase of every 1000 μF.											
Stability at Low Temperature (120Hz)	WV	6.3	10	16	25	35	50	63	80	100	
	Z <sub>-25°C</sub> /Z <sub>+20°C</sub>	5	4	3	3	3	3	3	3	3	
	Z <sub>-40°C</sub> /Z <sub>+20°C</sub>	10	8	5	4	4	4	4	4	4	
Endurance	In an environment of +105°C, apply the operating voltage with ripple current for 2000-4000 hours, and after 16 hours of recovery, the product performance meets the following requirements:										
	Working Voltage	6.3-10V			16-100V			Diameter	Product Life		
	Capacitance Change	Within ±30%of initial measured			Within ±25%of initial measured value			φ5~φ6.3	2000H		
	Dissipation Factor	≤200% of initial specified value									
	Leakage Current	≤initial specified value									
Shelf Life	In an environment of +105°C, apply the operating voltage with ripple current for 1000 hours, and after 16 hours of recovery, the product performance meets the following requirements:										
	Capacitance	Within ±20%of initial									
	Dissipation Factor	≤200% of initial specified									
	Leakage Current	≤200% of initial specified									

## DRAWING & DIMENSIONS (Unit: mm)



ΦD	5	6.3	8	10	13	16	18
F±0.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd±0.05	0.5	0.5	0.5	0.6	0.6	0.8	0.8
L	(L<20) ±1.5			(L≥20) ±2.0			
D	(D<20) ±0.5			(D≥20) ±1.0			

## REQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Capacitance(μF)	Frequency(Hz)			
	120	1K	10K	100K
Capacitance<220	0.40	0.75	0.90	1.00
220≤Capacitance<680	0.50	0.85	0.94	1.00
680≤Capacitance<2200	0.60	0.87	0.95	1.00
2200≤Capacitance<4700	0.75	0.90	0.95	1.00
Capacitance≥4700	0.85	0.95	0.98	1.00

EH

## NOMINAL CAPACITANCE, RATED VOLTAGE & DIMENSIONS

	6.3V (0J)				10V (1A)			
	Dimensions (mm)	ESR (Ω)	Ripple Current	Part Number	Dimensions (mm)	ESR (Ω)	Ripple Current	Part Number
100	5X11	0.58	210	EH0J101M0511BBH00000	5X11	0.58	210	EH1A101M0511BBH00000
150	5X11	0.58	210	EH0J151M0511BBH00000	6.3X12	0.22	340	EH1A151M6L12CBH00000
220	6.3X12	0.22	340	EH0J221M6L12CBH00000	6.3X12	0.22	340	EH1A221M6L12CBH00000
330	6.3X12	0.22	340	EH0J331M6L12CBH00000	6.3X12	0.22	340	EH1A331M6L12CBH00000
470	8X12	0.13	640	EH0J471M0812DBH00000	8X12	0.13	640	EH1A471M0812DBH00000
560	8X12	0.13	640	EH0J561M0812DBH00000	8X12	0.13	640	EH1A561M0812DBH00000
680	8X12	0.13	640	EH0J681M0812DBH00000	8X12	0.13	640	EH1A681M0812DBH00000
820	8X12	0.13	640	EH0J821M0812DBH00000	10X13	0.08	840	EH1A821M1013EBH00000
1000	8X12	0.13	640	EH0J102M0812DBH00000	8X16	0.087	865	EH1A102M0816DBH00000
1500	8X20	0.069	1050	EH0J152M0820DBH00000	10X20	0.046	1400	EH1A152M1020EBH00000
2200	10X20	0.046	1400	EH0J222M1020EBH00000	10X20	0.046	1400	EH1A222M1020EBH00000
3300	13X20	0.035	1900	EH0J332M1320EBH00000	13X25	0.030	2124	EH1A332M1325EBH00000
3900	13X20	0.035	1900	EH0J392M1320EBH00000	13X25	0.030	2124	EH1A392M1325EBH00000
4700	13X25	0.030	2124	EH0J472M1325EBH00000				

	16V (1C)				25V (1E)			
	Dimensions (mm)	ESR (Ω)	Ripple Current	Part Number	Dimensions (mm)	ESR (Ω)	Ripple Current	Part Number
22					5X11	1.03	157	EH1E220M0511BBH00000
33					5X11	0.69	192	EH1E330M0511BBH00000
47	5X11	0.58	210	EH1C470M0511BBH00000	5X11	0.49	229	EH1E470M0511BBH00000
100	6.3X12	0.22	340	EH1C101M6L12CBH00000	6.3X12	0.22	340	EH1E101M6L12CBH00000
150	6.3X12	0.22	340	EH1C151M6L12CBH00000	8X12	0.13	640	EH1E151M0812DBH00000
220	8X12	0.13	640	EH1C221M0812DBH00000	8X12	0.13	640	EH1E221M0812DBH00000
330	8X12	0.13	640	EH1C331M0812DBH00000	8X12	0.13	640	EH1E331M0812DBH00000
470	8X12	0.13	640	EH1C471M0812DBH00000	8X16	0.087	840	EH1E471M0816DBH00000
560	8X16	0.087	840	EH1C561M0816DBH00000				
680	8X16	0.087	840	EH1C681M0816DBH00000	10X16	0.060	1210	EH1E681M1016EBH00000
820	10X16	0.060	1210	EH1C821M1016EBH00000				
1000	10X16	0.060	1210	EH1C102M1016EBH00000	10X20	0.046	1400	EH1E102M1020EBH00000
1500	10X20	0.046	1400	EH1C152M1020EBH00000	13X20	0.040	1680	EH1E152M1320EBH00000
2200	13X20	0.035	1900	EH1C222M1320EBH00000	13X25	0.030	2124	EH1E222M1325EBH00000
3300	13X25	0.030	2124	EH1C332M1325EBH00000	16X25	0.028	2300	EH1E332M1625FBH00000

Rated ripple current: (105℃, 100KHz); ESR: (20℃,100KHz)

## EH

### NOMINAL CAPACITANCE, RATED VOLTAGE & DIMENSIONS

	35V (1V)				50V (1H)			
	Dimensions (mm)	ESR (Ω)	Ripple Current	Part Number	Dimensions (mm)	ESR (Ω)	Ripple Current	Part Number
1					5X11	3.0	50	EH1H1R0M0511BBH00000
2.2					5X11	3.0	56	EH1H2R2M0511BBH00000
3.3					5X11	3.0	60	EH1H3R3M0511BBH00000
4.7					5X11	3.0	75	EH1H4R7M0511BBH00000
6.8					5X11	3.0	100	EH1H6R8M0511BBH00000
10					5X11	1.40	110	EH1H100M0511BBH00000
22	5X11	0.59	207	EH1V220M0511BBH00000	5X11	0.75	130	EH1H220M0511BBH00000
33	5X11	0.39	254	EH1V330M0511BBH00000	6.3X12	0.30	295	EH1H330M6L12CBH00000
47	6.3X12	0.22	340	EH1V470M6L12CBH00000	6.3X12	0.30	295	EH1H470M6L12CBH00000
68	6.3X12	0.22	340	EH1V680M6L12CBH00000	8X12	0.17	555	EH1H680M0812DBH00000
100	8X12	0.13	640	EH1V101M0812DBH00000	10X13	0.12	760	EH1H101M1013EBH00000
150	8X12	0.13	640	EH1V151M0812DBH00000	10X13	0.12	760	EH1H151M1013EBH00000
220	8X12	0.13	640	EH1V221M0812DBH00000	10X16	0.084	1050	EH1H221M1016EBH00000
330	8X20	0.069	1050	EH1V331M0820DBH00000	13X20	0.045	1660	EH1H331M1320EBH00000
470	10X16	0.060	1210	EH1V471M1016EBH00000	13X25	0.034	1950	EH1H471M1325EBH00000
680	10X20	0.046	1400	EH1V681M1020EBH00000	13X30	0.030	2124	EH1H681M1330EBH00000
1000	13X20	0.035	1900	EH1V102M1320EBH00000	16X25	0.028	2300	EH1H102M1625FBH00000
1500	13X20	0.032	2130	EH1V152M1320EBH00000	16X35	0.026	2750	EH1H152M1635FBH00000
2200	16X30	0.030	2780	EH1V222M1630FBH00000	16X40	0.024	3040	EH1H222M1640FBH00000
3300	16X40	0.026	3100	EH1V332M1640FBH00000	18X40	0.022	3100	EH1H332M1840FBH00000

	63V (1J)				80V (1K)			
	Dimensions (mm)	ESR (Ω)	Ripple Current	Part Number	Dimensions (mm)	ESR (Ω)	Ripple Current	Part Number
10	5X11	1.20	90	EH1J100M0511BBH00000				
15	6.3x12	0.96	115	EH1J150M6L12CBH00000				
22	6.3X12	0.96	115	EH1J220M6L12CBH00000				
33	6.3X12	0.96	115	EH1J330M6L12CBH00000				
47	8X12	0.504	232	EH1J470M0812DBH00000				
68	8X12	0.504	232	EH1J680M0812DBH00000	8X12	0.400	290	EH1K680M0812DBH00000
100	8X16	0.360	300	EH1J101M0816DBH00000	10X13	0.300	330	EH1K101M1013EBH00000
150	8X20	0.264	362	EH1J151M0820DBH00000	10X16	0.240	440	EH1K151M1016EBH00000
220	10X20	0.168	466	EH1J221M1020EBH00000	10X20	0.180	510	EH1K221M1020EBH00000
330	13X20	0.128	690	EH1J331M1320EBH00000	13X20	0.150	760	EH1K331M1320EBH00000
470	13X25	0.096	922	EH1J471M1325EBH00000	13X25	0.072	980	EH1K471M1325EBH00000
680	16X25	0.065	1150	EH1J681M1625FBH00000	16X25	0.065	1250	EH1K681M1625FBH00000
1000	13X30	0.053	1620	EH1J102M1330EBH00000	16X35	0.052	1320	EH1K102M1635FBH00000
1500	16X40	0.043	1950	EH1J152M1640FBH00000				
2200	18X40	0.034	2350	EH1J222M1840FBH00000				

Rated ripple current: (105°C, 100KHz); ESR: (20°C,100KHz)

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## NOMINAL CAPACITANCE, RATED VOLTAGE & DIMENSIONS

	100V (2A)			
	Dimensions (mm)	ESR ( $\Omega$ )	Ripple Current (mA)	Part Number
4.7	5X11	3.0	75	EH2A4R7M0511BBH00000
6.8	5X11	3.0	100	EH2A6R8M0511BBH00000
10	6.3X12	0.96	115	EH2A100M6L12CBH00000
15	6.3X12	0.96	115	EH2A150M6L12CBH00000
22	8X12	0.504	232	EH2A220M0812DBH00000
33	10X13	0.344	287	EH2A330M1013EBH00000
47	10X13	0.344	314	EH2A470M1013EBH00000
68	10X16	0.248	357	EH2A680M1016EBH00000
100	10X20	0.168	466	EH2A101M1020EBH00000
150	10X20	0.168	466	EH2A151M1020EBH00000
220	13X25	0.096	922	EH2A221M1325EBH00000
330	16X25	0.085	1440	EH2A331M1625FBH00000
470	16X30	0.080	1650	EH2A471M1630FBH00000
680	16X40	0.075	1790	EH2A681M1640FBH00000
1000	18X40	0.070	1840	EH2A102M1840FBH00000

Rated ripple current: (105 $^{\circ}$ C, 100KHz); ESR: (20 $^{\circ}$ C,100KHz)