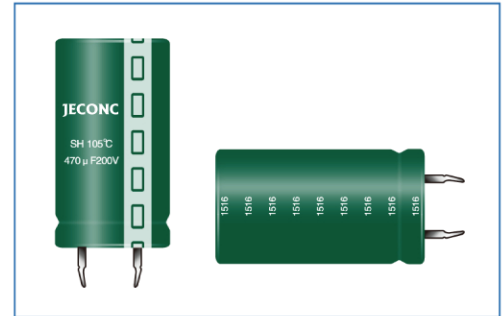


SH系列 SERIES

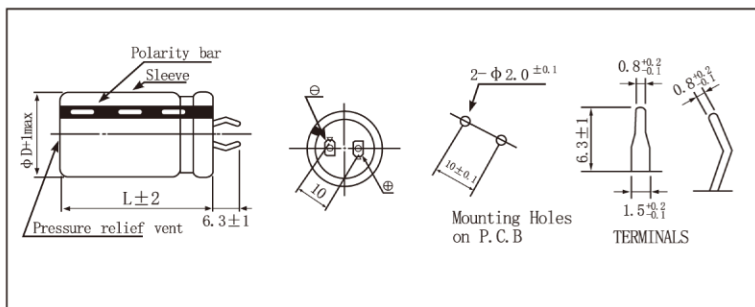
- 2000h at 105°C
- Standard 105°C
- General industry

◆ SPECIFICATION



Items	Characteristics								
Operating Temperature Range(℃)	-40~+105℃						-25~+105℃		
Voltage range (V)	10~100V						160~500V		
Capacitance Range (μF)	39~47000 μF								
Capacitance Tolerance	±20% (at 20℃, 120Hz)								
leakage current (μA)	After 5 minutes at 20℃ application of rated voltage ,leakage current is not more than 0.01CVor 1.5mA, whichever is smaller. C:Nominal Capacitance (μF) V :Rated Voltage (V)								
Dissipation Factor(Tan δ)	WV (V)	10	16	25	35	50	63~100	160~400	450~500
	Tan δ (max)	0.55	0.50	0.40	0.35	0.30	0.20	0.15	0.20
Low Temperature Characteristics	(at 20℃, 120Hz)								
	Rated Voltage (V)	10~100			160~200			250~500	
	Z-25℃/Z+20℃	4			4			6	
	Z-40℃/Z+20℃	15			--			--	
Load Life	(at 20℃, 120Hz)								
	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated rippled current is applied for 2000 hours at 105℃								
	Capacitance change	Within ±20%initial value							
	D.F. (Tan δ)	Not more than 200% of specified value							
Shelf Life	leakage current	Not more than specified value							
	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hours at 105℃without voltage applied .Before the measurement ,the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.								
	Capacitance change	Within ±20%initial value							
	D.F. (Tan δ)	Not more than 200% of specified value							
	leakage current	Not more than specified value							

◆ DIMENSIONS(mm)



◆ Frequency Coefficient

Frequency	50/60Hz	120Hz	1KHz	10KHz	100KHz
Rated Voltage(V)					
10~100WV	0.95	1.00	1.10	1.15	1.15
160~250WV	0.87	1.00	1.11	1.18	1.20
315~450WV	0.80	1.00	1.14	1.14	1.20

◆ Temperature Coefficient

Temperature(°C)	+40	+55	+70	+85	+105
Rated Voltage(V)					
<160	2.7	2.5	2.1	1.7	1.0

SH系列

SERIES

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C 120Hz	Rated Ripple Current 105°C 120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
10V	8200	89	1360	22×25
	10000	73	1650	22×30
	12000	61	1850	22×35
		61	1820	25×25
	15000	49	2120	22×40
		49	2110	25×30
		49	2140	30×25
	18000	41	2400	22×45
		41	2320	25×35
	22000	33	2590	25×40
		33	2730	30×30
	27000	27	3010	25×45
		27	3130	30×35
		27	3050	35×30
	33000	22	3430	25×50
		22	3530	30×40
		22	3490	35×35
	39000	19	3780	30×45
		19	3960	35×40
16 (1C)	47000	16	4580	30×50
		16	4600	35×45
	56000	13	5060	35×50
	6800	98	1600	22×25
	10000	66	1990	22×30
		66	1990	25×25
	12000	55	2280	22×35
		55	2300	25×30
		55	2380	30×25
	15000	44	2640	22×40
		44	2680	25×35
	18000	37	2980	22×45
		37	3040	25×40
		37	3000	30×30
		37	3100	35×25
	22000	30	3400	25×45
		30	3390	30×35
	27000	25	3810	25×50
		25	3830	30×40
		25	3740	35×30
	33000	20	4300	30×45
		20	4240	35×35
25 (1E)	39000	17	4740	30×50
	47000	17	4720	35×40
		14	5270	35×45
	4700	113	1550	22×25
	6800	78	1910	22×30
		78	1910	25×25
	8200	65	2140	22×35
		65	2160	25×30
		65	2250	30×25
	10000	53	2400	22×40
		53	2440	25×35

SH系列

SERIES

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C 120Hz	Rated Ripple Current 105°C 120Hz	Size Φ D×L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
25 (1E)	12000	44	2690	22×45
		44	2740	25×40
		44	2700	30×30
		44	2800	35×25
	15000	35	3150	25×45
		35	3130	30×35
		35	3220	35×30
	18000	30	3540	25×50
		30	3540	30×40
	22000	24	4240	30×45
		24	3960	35×35
	27000	20	4750	35×45
35 (1V)	33000	16	5390	35×50
	3300	141	1430	22×25
	3900	119	1650	22×30
	4700	99	1780	25×25
	5600	83	2020	22×35
		83	2040	25×30
		83	2120	30×25
	6800	68	2280	22×40
		68	2310	25×35
	8200	57	2670	22×50
		57	2600	25×40
		57	2560	30×30
		57	2780	35×25
	10000	46	2920	25×45
		46	2920	30×35
	12000	39	3260	25×50
		39	3280	30×40
		39	3200	35×30
	15000	31	3740	30×45
		31	3690	35×35
	18000	26	4160	35×40
	22000	21	4920	35×50
50 (1H)	1800	221	1310	22×25
	2200	181	1450	22×30
	2700	147	1700	22×30
		147	1700	25×25
	3300	121	1980	22×35
		121	2000	25×30
	3900	102	2250	22×40
		102	2280	25×35
		102	2220	30×25
	4700	85	2560	22×45
		85	2580	30×30
		85	2670	35×25
	5600	71	2890	22×50
		71	2810	25×40
		71	2950	30×35
	6800	59	3370	25×50
		59	3390	30×40
		59	3310	35×30
	8200	49	3710	30×45
		49	3660	35×35
	10000	40	4090	30×50
		40	4070	35×40
	12000	33	4500	35×45

SH系列 SERIES

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C 120Hz	Rated Ripple Current 105°C120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
63 (1J)	1200	221	1250	22×25
	1800	147	1520	22×30
		147	1520	25×25
	2200	121	1730	22×35
		121	1750	25×30
	2700	98	1970	22×40
		98	1990	25×35
		98	1930	30×25
	3300	80	2320	22×50
		80	2270	25×40
		80	2240	30×30
		80	2410	35×25
	3900	68	2540	25×45
		68	2550	30×35
	4700	57	2880	25×50
		57	2900	30×40
		57	2830	35×30
80 (100) 1K	5600	47	3280	30×45
		47	3240	35×35
		39	3730	30×50
	6800	39	3710	35×40
		32	4160	35×45
	8200	27	4690	35×50
	10000	27	4690	35×50
	820	324	1110	22×25
	1000	266	1250	22×25
	1200	221	1390	22×30
		221	1390	25×25
	1500	177	1610	22×35
		177	1620	25×30
	1800	147	1830	22×40
		147	1810	30×25
	2200	121	2090	22×45
		121	2010	25×35
		121	2100	30×30
		121	2170	35×25
	2700	98	2430	25×45
		98	2430	30×35
	3300	80	2760	25×50
		80	2780	30×40
		80	2710	35×30
	3900	68	3120	30×45
		68	3070	35×35
100 (125) 2A	4700	57	3560	30×50
		57	3500	35×40
	5600	47	3870	35×45
	6800	39	4190	35×50
	560	474	1070	22×25
	820	324	1350	22×30
		324	1350	25×25
	1000	265	1540	22×35
		265	1560	25×30
	1200	221	1740	22×40
		221	1760	25×35
		221	1710	30×25

SH系列 SERIES

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C120Hz	Rated Ripple Current 105°C120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
100 (125) 2A	1500	177	1990	22×45
		177	2030	25×40
		177	2000	30×30
		177	2070	35×25
	1800	147	2280	25×45
		147	2270	30×35
	2200	121	2570	25×50
		121	2590	30×40
		121	2520	35×30
	2700	98	2940	30×45
		98	2900	35×35
	3300	80	3320	30×50
160 (200) 2C	330	603	1160	22×25
		510	1430	22×30
	390	424	1520	22×35
		424	1550	25×25
	560	355	1620	22×40
		355	1730	25×30
	680	293	1700	22×45
		293	1810	25×35
		293	1820	30×25
	820	243	1810	22×50
		243	1980	25×40
		243	1980	30×30
		243	1930	35×25
	1000	199	2040	25×45
		199	2140	30×35
	1200	166	2120	25×50
		166	2220	30×40
		166	2400	35×30
	1500	133	2460	30×45
		133	2530	35×35
	1800	111	2980	35×45
	2200	91	3100	35×50
200 (250) 2D	220	905	1080	22×25
	270	737	1200	22×30
	330	603	1300	22×30
		603	1350	25×25
	390	510	1410	22×35
	470	424	1500	22×40
		424	1470	25×30
		424	1560	30×25
	560	355	1580	22×45
		355	1650	25×35
	680	293	1680	22×50
		293	1800	25×40
		293	1820	30×30
		293	1960	35×25
	820	243	1870	25×50
		243	1990	30×35
		243	2070	35×30

SH系列

SERIES

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C120Hz	Rated Ripple Current 105°C120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
200 (250) 2D	1000	199	2170	30×45
		199	2220	35×35
	1200	166	2220	30×50
		166	2420	35×40
	1500	133	2590	35×45
250 (300) 2E	1800	111	2700	35×50
	180	1106	940	22×25
		905	1100	22×30
	220	905	1150	25×25
		737	1130	22×35
	330	603	1200	22×40
		603	1300	25×30
		603	1300	30×25
	390	510	1260	22×45
		510	1410	25×35
	470	424	1370	22×50
		424	1520	25×40
		424	1360	30×30
		424	1400	35×25
	560	355	1590	25×45
		355	1570	30×35
		355	1560	35×30
	680	293	1660	25×50
		293	1760	30×40
	820	243	1830	30×45
		243	1820	35×35
	1000	199	1870	30×50
		199	1990	35×40
350 (400) 2V	1200	166	2100	35×45
	68	2927	560	22×25
		1990	700	22×30
	100	1990	700	25×25
		1659	730	22×35
	120	1327	790	22×40
		1327	820	25×30
		1327	820	30×25
	150	1106	810	22×45
		1106	890	25×35
		1106	900	30×30
		905	930	22×50
	220	905	970	25×40
		905	980	35×25
		737	1010	25×50
	270	737	1050	30×35
		737	1010	35×30
		603	1160	30×45
	330	603	1160	35×35
		510	1260	30×50
	390	510	1260	35×40
		424	1350	35×45
	470	424	1350	35×45
	560	355	1510	35×50
400 (450) 2G	68	2927	470	22×25
	82	2427	560	22×30
		2427	650	25×25
	100	1990	600	22×30

SH系列

SERIES

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C120Hz	Rated Ripple Current 105°C120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
400 (450) 2G	120	1659	640	22×35
		1659	700	25×30
		1659	780	30×25
	150	1327	700	22×40
		1327	730	25×35
	180	1106	780	22×50
		1106	820	25×40
		1106	830	30×30
		1106	860	35×25
	220	905	870	25×45
		905	960	30×35
	270	737	940	25×50
		737	950	30×40
		737	910	35×30
450 (500) 2W	330	603	1110	30×45
		603	1130	35×35
	390	510	1150	30×50
		510	1260	35×40
	470	424	1310	35×45
	560	355	1500	35×50
	56	4739	470	22×25
	68	3903	560	22×30
		3903	650	25×25
	82	3237	640	22×35
	100	2654	700	22×40
		2654	700	25×30
		2654	780	30×25
	120	2212	730	22×45
		2212	730	25×35
	150	1769	780	22×50
		1769	820	25×40
		1769	830	30×30
		1769	860	35×25
	180	1474	870	25×45
		1474	860	30×35
	220	1206	940	25×50
		1206	950	30×40
		1206	910	35×30
	270	983	1110	30×45
		983	1130	35×35
500 (550) 2H	330	804	1150	30×50
		804	1260	35×40
	390	681	1310	35×45
	470	565	1500	35×50
	39	6805	350	22×30
	47	5647	410	22×35
	56	4739	470	22×40
	68	3903	540	22×45
	82	3237	620	25×40
	100	2654	670	25×45
		2212	770	25×50
	120	2212	720	35×30
		1769	850	30×40
	180	1474	1010	30×50
	220	1206	1120	35×45
	270	983	1290	35×50