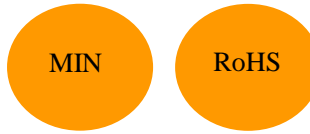


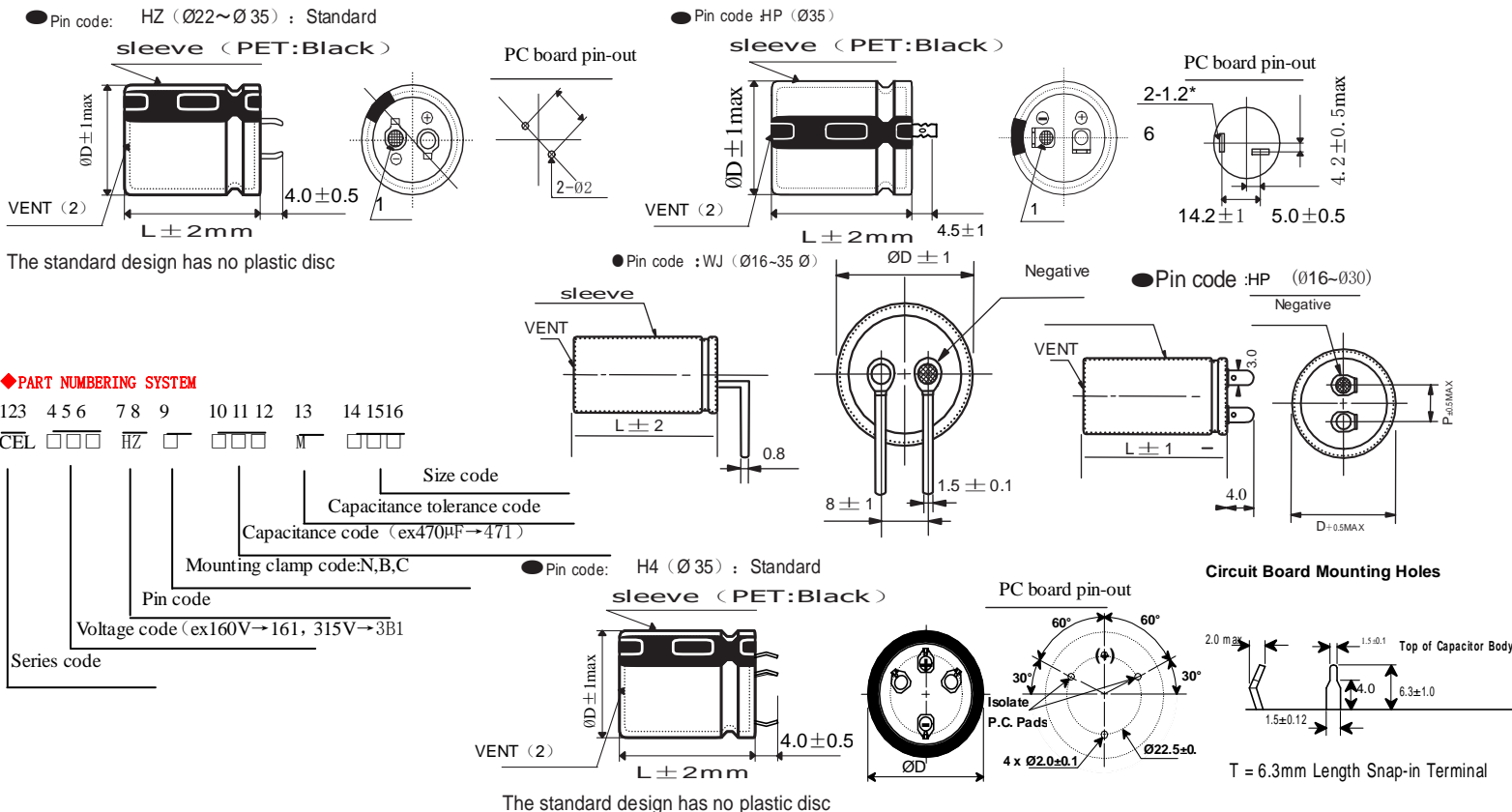
- Doesn't spark with DC over voltage;
- Downsized from current Endurance with ripple current: 3000 hours at 105°C;
- Apply to Server, Driver, Frequency converter, deflectors, Electric control cabinet, Photovoltaic inverter.



**SPECIFIC ATIONS**

items	characteristics							
Category temperature Range	-40~+105°C							
Rated voltage Range	200~600 <sub>VDC</sub>							
Capacitance Tolerance	± 20% (M)				20°C、120HZ			
Leakage Current	I=0.02CV or 5mA, whichever is smaller I: Where, I : Max. leakage current (µA)、C: Nominal capacitance (µF)、Rated voltage (V)at 20°C after 5 minutes)							
Dissipation Factor (MAX)	≤Specified				20°C/120HZ			
Low Temperature characteristics	Rated voltage (Vdc)	200V	250V	400V	450V	500V	550V	600V
	Z (-25°C)/Z (+20°C)	≤4						
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 3,000 hours at 105°C.							
	Capacitance change	≤±20% of the initial value						
	D.F. (tanδ)	≤300% of the initial specified value						
	Leakage current	≤The initial specified value						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C 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	≤±20% of the initial value						
	D.F. (tanδ)	≤300% of the initial specified value						
	Leakage current	≤The initial specified value						

**size Fig (snap-in Fig)[mm]**





SRANDRAD RATINGS

WV [Vdc]	cap [μ F]	Case size D x L [mm]	tanδ 120Hz20°C	Ripple current (Ams/105 °C, 120Hz)	Par t NO.	WV [Vdc]	cap [μ F]	Case size D x L [mm]	tanδ 120Hz20°C	Ripple current (Ams/105 °C, 120Hz)	Par t NO.	
200	180	22×20	0.15	0.82	CHA201HZN181MP20	400	150	25.4×30	0.15	0.85	CHA401HZN151MQ30	
	220	22×20	0.15	0.90	CHA201HZN221MP20		150	30×25	0.15	0.85	CHA401HZN151MR25	
	270	22×25	0.15	1.02	CHA201HZN271MP25		180	22×40	0.15	0.94	CHA401HZN181MP40	
	330	22×30	0.15	1.20	CHA201HZN331MP30		180	25.4×35	0.15	0.95	CHA401HZN181MQ35	
	330	25.4×25	0.15	1.20	CHA201HZN331MQ25		180	30×25	0.15	0.95	CHA401HZN181MR25	
	390	22×30	0.15	1.35	CHA201HZN391MP30		220	25.4×35	0.15	1.24	CHA401HZN221MQ35	
	390	25.4×25	0.15	1.35	CHA201HZN391MQ25		220	30×30	0.15	1.24	CHA401HZN221MR30	
	470	22×35	0.15	1.45	CHA201HZN471MP35		220	35×25	0.15	1.24	CHA401HZN221MA25	
	470	25.4×30	0.15	1.45	CHA201HZN471MQ30		270	25.4×45	0.15	1.30	CHA401HZN271MQ45	
	470	30×25	0.15	1.47	CHA201HZN471MR25		270	30×35	0.15	1.30	CHA401HZN271MR35	
	560	22×40	0.15	1.62	CHA201HZN561MP40		270	35×25	0.15	1.30	CHA401HZN271MA25	
	560	25.4×30	0.15	1.60	CHA201HZN561MQ30		330	30×35	0.15	1.45	CHA401HZN331MR35	
	560	30×25	0.15	1.60	CHA201HZN561MR25		330	30×40	0.15	1.47	CHA401HZN331MR40	
	680	25.4×35	0.15	1.82	CHA201HZN681MQ35		330	35×30	0.15	1.47	CHA401HZN331MA30	
	680	30×30	0.15	1.81	CHA201HZN681MR30		450	82	25.4×25	0.15	0.61	CHA451HZN820MQ25
	680	35×25	0.15	1.86	CHA201HZN681MA25			120	25.4×30	0.15	0.76	CHA451HZN121MQ30
	820	25.4×45	0.15	2.11	CHA201HZN821MQ45			120	30×25	0.15	0.77	CHA451HZN121MR25
	820	30×35	0.15	2.11	CHA201HZN821MR35			150	25.4×35	0.15	0.88	CHA451HZN151MQ35
	820	35×25	0.15	2.11	CHA201HZN821MA25			180	25.4×40	0.15	0.99	CHA451HZN181MQ40
	1000	30×35	0.15	2.40	CHA201HZN102MR35			180	30×30	0.15	0.97	CHA451HZN181MR30
1000	35×30	0.15	2.40	CHA201HZN102MA30	180	30×35		0.15	1.00	CHA451HZN181MR35		
1200	30×45	0.15	2.69	CHA201HZN122MR45	220	30×35		0.15	1.30	CHA451HZN221MR35		
1200	35×35	0.15	2.65	CHA201HZN122MA35	220	35×25		0.15	1.20	CHA451HZN221MA25		
250	120	22×20	0.15	0.68	CHA251HZN121MP20	270		30×40	0.15	1.28	CHA451HZN271MR40	
	180	22×25	0.15	0.87	CHA251HZN181MP25	270		35×30	0.15	1.30	CHA451HZN271MA30	
	180	25.4×20	0.15	0.93	CHA251HZN181MQ20	330		35×35	0.15	1.40	CHA451HZN331MA35	
	220	22×30	0.15	1.00	CHA251HZN181MP30	390		35×40	0.15	1.60	CHA451HZN391MA40	
	270	22×35	0.15	1.14	CHA251HZN271MP35	420		35×50	0.15	1.56	CHA451HZN421MA50	
	270	25.4×25	0.15	1.13	CHA251HZN271MQ25	470		35×50	0.15	1.63	CHA451HZN471MA50	
	270	30×25	0.15	1.13	CHA251HZN271MR25	560		35×60	0.15	1.75	CHA451HZN561MA60	
	270	35×20	0.15	1.25	CHA251HZN271MA20	500		47	22×25	0.20	0.51	CHA501HZN470MP25
	330	22×40	0.15	1.28	CHA251HZN271MA20			56	22×30	0.20	0.58	CHA501HZN560MP30
	330	25.4×30	0.15	1.29	CHA251HZN331MQ30			68	25.4×25	0.20	0.65	CHA501HZN680MQ25
	390	22×45	0.15	1.42	CHA251HZN391MP45			82	22×35	0.20	0.72	CHA501HZN820MP35
	390	25.4×35	0.15	1.46	CHA251HZN391MQ35		82	25.4×30	0.20	0.74	CHA501HZN820MQ30	
	390	30×25	0.15	1.52	CHA251HZN391MR25		100	22×45	0.20	0.83	CHA501HZN101MP45	
	390	35×20	0.15	1.62	CHA251HZN391MA20		100	30×25	0.20	0.82	CHA501HZN101MR25	
	470	25.4×40	0.15	1.64	CHA251HZN471MQ40		120	22×50	0.20	0.93	CHA501HZN121MP50	
	470	30×30	0.15	1.67	CHA251HZN471MR30		120	25.4×35	0.20	0.93	CHA501HZN121MQ35	
	560	25.4×45	0.15	1.82	CHA251HZN561MQ45		120	30×30	0.20	0.91	CHA501HZN121MR30	
	560	30×35	0.15	1.87	CHA251HZN561MR35		150	25.4×45	0.20	1.08	CHA501HZN151MQ45	
	560	35×25	0.15	1.99	CHA251HZN561MA25		150	30×35	0.20	1.04	CHA501HZN151MR35	
	680	30×40	0.15	2.12	CHA251HZN681MR40		150	35×25	0.20	0.99	CHA501HZN151MA25	
680	35×30	0.15	2.19	CHA251HZN681MA30	180		25.4×50	0.20	1.20	CHA501HZN181MQ50		
820	30×45	0.15	2.39	CHA251HZN821MR45	180		30×40	0.20	1.17	CHA501HZN181MR40		
820	35×35	0.15	2.42	CHA251HZN821MA35	180		35×30	0.20	1.10	CHA501HZN181MA30		
400	56	22×20	0.15	0.45	CHA401HZN560MP20		220	30×45	0.20	1.33	CHA501HZN221MR45	
	68	22×20	0.15	0.51	CHA401HZN680MP20		220	35×35	0.20	1.23	CHA501HZN221MA35	
	82	22×25	0.15	0.58	CHA401HZN820MP25		270	30×50	0.20	1.50	CHA501HZN271MR50	
	100	22×25	0.15	0.66	CHA401HZN101MP25		270	35×40	0.20	1.42	CHA501HZN271MA40	
	100	25.4×25	0.15	0.66	CHA401HZN101MQ25	330	35×45	0.20	1.60	CHA501HZN331MA45		
	120	22×30	0.15	0.76	CHA401HZN121MP30	390	35×50	0.20	1.78	CHA501HZN391MA50		
	120	25.4×25	0.15	0.76	CHA401HZN121MQ25	470	35×60	0.20	2.03	CHA501HZN471MA60		
	150	22×35	0.15	0.85	CHA401HZN151MP35	550	82	22×35	0.20	0.72	CHA551HZN820MP35	

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications



WV [Vdc]	cap [μ F]	Case size D x L [mm]	tanδ 120Hz20°C	Ripple current (Ams/105 °C, 120Hz)	Par t NO.	WV [Vdc]	cap [μ F]	Case size D x L [mm]	tanδ 120Hz20°C	Ripple current (Ams/105 °C, 120Hz)	Par t NO.
550	82	25.4×30	0.20	0.74	CHA551HZN820MQ30	550	330	35×45	0.20	1.60	CHA551HZN331MA45
	100	22×45	0.20	0.83	CHA551HZN101MP45		330	35×50	0.20	1.64	CHA551HZN331MA50
	100	25.4×35	0.20	0.85	CHA551HZN101MQ35		470	35×60	0.20	2.03	CHA551HZN471MA60
	100	30×25	0.20	0.82	CHA551HZN101MR25		100	30×30	0.20	0.83	CHA601HZN101MR30
	120	22×50	0.20	0.93	CHA551HZN121MP50		100	35×25	0.20	0.85	CHA601HZN101MA25
	120	25.4×40	0.20	0.95	CHA551HZN121MQ40		120	30×35	0.20	0.93	CHA601HZN121MR35
	120	30×30	0.20	0.91	CHA551HZN121MR30		150	30×40	0.20	1.07	CHA601HZN151MR40
	120	35×25	0.20	0.88	CHA551HZN121MA25		150	35×30	0.20	1.06	CHA601HZN151MA30
	150	25.4×45	0.20	0.08	CHA551HZN151MQ45		180	30×45	0.20	1.20	CHA601HZN181MR45
	150	30×35	0.20	1.04	CHA551HZN151MR35		180	30×50	0.20	1.22	CHA601HZN181MR50
	180	25.4×50	0.20	1.20	CHA551HZN181MQ50		180	35×35	0.20	1.18	CHA601HZN181MA35
	180	30×40	0.20	1.17	CHA551HZN181MR40		220	30×60	0.20	1.40	CHA601HZN221MR60
	180	35×30	0.20	1.10	CHA551HZN181MA30		220	35×40	0.20	1.35	CHA601HZN221MA40
	220	30×45	0.20	1.33	CHA551HZN221MR45		220	35×45	0.20	1.38	CHA601HZN221MA45
	220	35×35	0.20	1.23	CHA551HZN221MA35		270	35×50	0.20	1.56	CHA601HZN271MA50
	270	30×50	0.20	1.50	CHA551HZN271MR50		330	35×60	0.20	1.79	CHA601HZN331MA60
270	35×40	0.20	1.42	CHA551HZN271MA40	470	35×65	0.20	1.88	CHA601HZN471MA65		

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (HZ)	50	120	300	1K	10K	50K
200~600vdc	0.77	1.00	1.16	1.30	1.41	1.43

×The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. when long life performance is required in actual use, the rms ripple current has to be reduced

◆DC OVERVOLTAGE TEST CONDITIONS

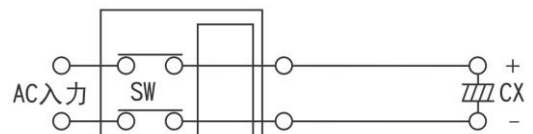
The vent will operate and the capacitor shall become an open circuit without burning materials.

When the following test DC voltage is applied

●Test DC voltage

Rated voltage	Nominal capacitance	Current Limit	Test Voltage
200vdc	<330μF	2A	300/375vdc
	330μF ≦ c < 470μF	4A	
	≧ 470μF	7A	
250vdc	<330μF	2A	350/450vdc
	330μF ≦ c < 470μF	4A	
	≧ 470μF	7A	
400vdc	<100μF	2A	500/600vdc
	100μF ≦ c < 220μF	4A	
	≧ 220μF	7A	
450vdc	<100μF	2A	550/675vdc
	100μF ≦ c < 220μF	4A	
	≧ 220μF	7A	

●Test circuit



Constant DC voltage

Current power supply