

CD 29H QH SERIES



SNAP-IN/LUG

3000h at 105°C

- Long Useful Life
- Highest Ripple Current
- Industrial Power Supplies and Inverters

CD 29H QH

↑ highest current

CD 296 KC

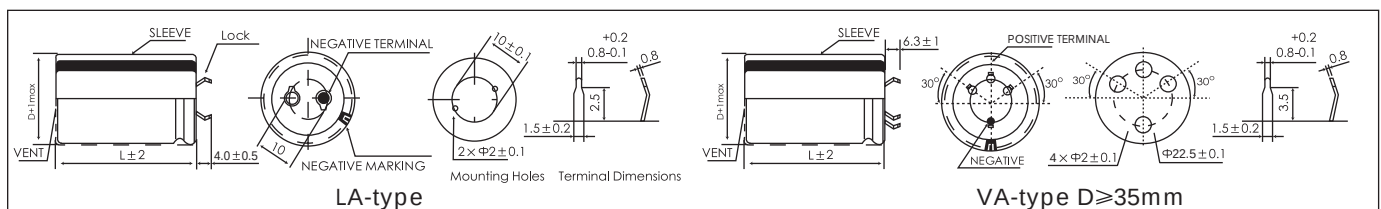


Items	Characteristics			
Operating Temperature Range (°C)	-40 ~ +105			
Voltage Range (V)	200 ~ 450			
Capacitance Range (μF)	150 ~ 2200			
Capacitance Tolerance (20°C, 120Hz)	± 20%			
Leakage Current (μA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 1.5mA, whichever is smaller. C: Nominal Capacitance (μF) V: Rated Voltage (V)			
Dissipation Factor (20°C, 120Hz)	Rated Voltage (V)	200	250	350
	Tan δ (max)	0.15		0.12
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	200 ~ 450		
	Z _{-25°C} / Z _{+20°C}	4		
	Z _{-40°C} / Z _{+20°C}	8		

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	5000h	>100000h	3000h	3000h	1000h
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
Capacitance Change	Within ± 30% of initial value		Within ± 20% of initial value	Within ± 20% of initial value	Within ± 20% of initial value
Dissipation Factor	Not more than 300% of specified value		Not more than 200% of specified value	Not more than 130% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U _R I _R 105°C	U _R 1.4 × I _R 50°C	U _R I _R 105°C	U _R I _R = 0 105°C	U _R = 0 I _R = 0 105°C After test: U _R to be applied for 30min >24h before measurement

Dimensions

mm



Frequency Coefficient

Frequency	50/60Hz	120Hz	300Hz	1kHz	10kHz	≥ 50kHz
Coefficient	0.80	1.00	1.16	1.30	1.41	1.45

Temperature Coefficient

Temperature(°C)	+40	+55	+70	+85	+105
Coefficient	2.7	2.5	2.1	1.7	1.0

Ratings for CD 29H QH Series

U _s (Surge Voltage) Code	Rated Capa- cance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 (250) 2D	470	424	260	1.53	22 × 35	ECS2DQH471M□□320035
	560	355	220	1.65	25 × 35	ECS2DQH561M□□250035
	680	293	180	1.92	25 × 40	ECS2DQH681M□□250040
	820	243	150	2.1	30 × 30	ECS2DQH821M□□300035
	1000	199	120	2.4	30 × 40	ECS2DQH102M□□300040
		199	120	2.4	35 × 35	ECS2DQH102M□□350035
	1200	166	100	2.71	30 × 40	ECS2DQH122M□□300040
	1500	133	80	3.13	25 × 50	ECS2DQH152M□□250050
	1800	111	68	3.9	30 × 50	ECS2DQH182M□□300050
	2200	91	56	4.5	35 × 50	ECS2DQH222M□□350050
250 (300) 2E	330	603	380	1.23	22 × 35	ECS2EQH331M□□220035
		603	380	1.35	25 × 30	ECS2EQH331M□□250030
	470	424	268	1.52	25 × 35	ECS2EQH471M□□250035
		424	268	1.65	30 × 30	ECS2EQH471M□□300030
	560	355	225	1.85	25 × 45	ECS2EQH561M□□250045
	680	293	185	2.2	25 × 50	ECS2EQH681M□□250050
		293	185	2.18	30 × 35	ECS2EQH681M□□300035
	820	243	153	2.25	30 × 35	ECS2EQH821M□□300035
	1000	199	125	2.9	30 × 50	ECS2EQH102M□□300050
		199	125	2.9	35 × 40	ECS2EQH102M□□350040
	1200	166	105	2.97	35 × 35	ECS2EQH122M□□350035
	1500	133	85	3.8	35 × 50	ECS2EQH152M□□350050
400 (450) 2G	150	1062	575	0.85	22 × 40	ECS2GQH151M□□220040
		1062	575	0.85	25 × 35	ECS2GQH151M□□250035
	180	885	479	1	22 × 50	ECS2GQH181M□□220050
		885	479	1	25 × 40	ECS2GQH181M□□250040
	220	724	292	1.2	25 × 45	ECS2GQH221M□□250045
		724	292	1.15	30 × 25	ECS2GQH221M□□300025
	270	590	319	1.25	22 × 50	ECS2GQH271M□□220050
		590	319	1.35	35 × 30	ECS2GQH271M□□350030
	330	483	260	1.44	25 × 45	ECS2GQH331M□□250045
		483	260	1.35	30 × 30	ECS2GQH331M□□300030
	390	408	220	1.72	25 × 50	ECS2GQH391M□□250050
		408	220	1.8	35 × 40	ECS2GQH391M□□350040
	470	339	183	2	30 × 50	ECS2GQH471M□□300050
		339	183	2.1	35 × 45	ECS2GQH471M□□350045
	560	284	154	1.98	35 × 35	ECS2GQH561M□□350035
		284	154	2.2	35 × 45	ECS2WQH561M□□350045
	680	284	154	2.3	35 × 50	ECS2WQH561M□□350050
		234	127	2.58	35 × 55	ECS2GQH681M□□350055
	820	194	105	2.84	35 × 60	ECS2WQH821M□□350060
450 (500) 2W	150	1062	530	0.84	22 × 35	ECS2WQH151M□□220035
		1062	530	0.84	25 × 30	ECS2WQH151M□□250030
		1062	530	0.88	30 × 25	ECS2WQH151M□□300035
	180	885	440	0.88	25 × 30	ECS2WQH181M□□250030
		885	440	0.92	30 × 25	ECS2WQH181M□□300025
	220	724	360	1.1	25 × 40	ECS2WQH221M□□250040
		724	360	1.1	30 × 30	ECS2WQH221M□□300030
	270	590	295	1.36	30 × 30	ECS2WQH271M□□300030
		590	295	1.41	30 × 35	ECS2WQH271M□□300035
	330	483	240	1.44	30 × 30	ECS2WQH331M□□300030
		483	240	1.49	30 × 35	ECS2WQH331M□□300035
		483	240	1.65	35 × 40	ECS2WQH331M□□350040
	390	408	205	1.67	25 × 50	ECS2WQH391M□□250050
		408	205	1.55	30 × 35	ECS2WQH391M□□300035
		408	205	1.6	35 × 30	ECS2WQH391M□□350030
	470	339	170	1.92	30 × 45	ECS2WQH471M□□300045
		339	170	2.1	35 × 40	ECS2WQH471M□□350040

U _s (Surge Voltage) Code	Rated Capa- cance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 (500) 2W	470	339	170	2.2	35 × 50	ECS2WQH471M□□350050
	560	284	142	2.1	30 × 50	ECS2WQH561M□□300050
		284	142	2.3	35 × 45	ECS2WQH561M□□350045
	680	234	116	2.5	35 × 50	ECS2WQH681M□□350050
	820	195	95	2.72	30 × 60	ECS2WQH821M□□300060
		195	97	3	35 × 60	ECS2WQH821M□□350060

Customer products are available on request.

Lifetime Diagram

