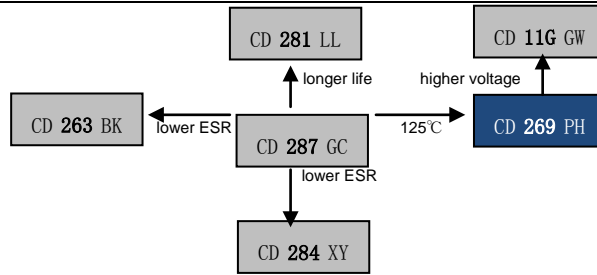


CD 269 PH Series



2000h at 125°C

- High Reliability at High Temperature
- Automotive
- Professional Long-Life Applications

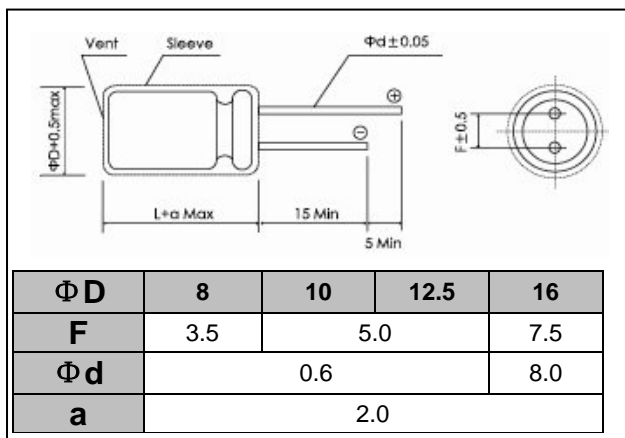


Items	Characteristics														
Operating Temperature Range(°C)	-40 ~ +125														
Rated Voltage Range(V)	10 ~63														
Capacitance Range(μF)	47 ~3300														
Capacitance Tolerance (20°C,120Hz)	±20%														
Leakage Current (μA)	After 2 minutes at 20°C application of rated voltage, leakage current is not more than 0.04CV C:Nominal Capacitance(μF) V:Rated Voltage(V)														
Dissipation Factor (20°C, 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td>Tan δ(max)</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> </tr> </tbody> </table>	Rated Voltage(V)	10	16	25	35	50	63	Tan δ(max)	0.20	0.16	0.14	0.12	0.10	0.09
	Rated Voltage(V)	10	16	25	35	50	63								
Tan δ(max)	0.20	0.16	0.14	0.12	0.10	0.09									
For Capacitances>1000μF add 0.02 to every 1000μF															

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	4000h	>180000h	2000h	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 ±50% of initial value		Within ±30% of initial value	Within ±30% of initial value	Within ±30% of initial value
Dissipation Factor	Not more than 500% of specified value		Not more than 300% of specified value	Not more than 300% of specified value	Not more than 300% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U _R I _R 125°C	U _R 1.4 x I _R 60°C	U _R I _R 125°C	U _R I _R = 0 125°C	After test: U _R to be applied for 30min>24h before measurement

Dimensions

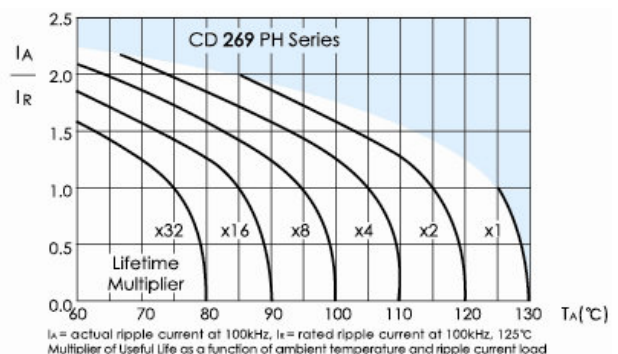
mm



Frequency Coefficient

Frequency	120Hz	1kHz	10kHz	100kHz
Cap(μF)				
47~100	0.40	0.75	0.90	1.00
220~330	0.50	0.85	0.95	1.00
470~1000	0.60	0.88	0.96	1.00
2200~3300	0.75	0.90	0.98	1.00

Lifetime Diagram



Temperature Coefficient

Temperature(°C)	+65	+85	+105	+125
Coefficient	2.2	2.0	1.7	1.0

Ratings for CD 269 PH Series

U _R (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Max Imp 20°C, 100kHz	MAX Imp -10°C, 100kHz	Rated Ripple Current 125°C, 100kHz	Size ΦD×L	P/N
(v)	(μF)	(Ω)	(Ω)	(Ω)	(mArms)	(mm)	-
10 (13) 1A	330	0.8	0.33	0.66	340	8×11.5	ECR1APH331M□□080011
	470	0.57	0.24	0.48	500	10×12.5	ECR1APH471M□□100012
	1000	0.27	0.12	0.24	770	10×20	ECR1APH102M□□100020
	2200	0.14	0.061	0.13	1250	12.5×25	ECR1APH222M□□125025
	3300	0.1	0.05	0.1	1380	16×25	ECR1APH332M□□160025
16 (20) 1C	220	0.97	0.33	0.66	340	8×11.5	ECR1CPH221M□□080011
	330	0.65	0.24	0.48	500	10×12.5	ECR1CPH331M□□100012
	470	0.46	0.2	0.4	630	10×16	ECR1CPH471M□□100016
	1000	0.22	0.077	0.16	920	12.5×20	ECR1CPH102M□□125020
	2200	0.11	0.05	0.1	1380	16×25	ECR1CPH222M□□160025
25 (32) 1E	220	0.85	0.23	0.46	480	8×16	ECR1EPH221M□□080016
	330	0.57	0.2	0.4	630	10×16	ECR1EPH331M□□100016
	470	0.4	0.12	0.24	770	10×20	ECR1EPH471M□□100020
	1000	0.19	0.061	0.13	1250	12.5×25	ECR1EPH102M□□125025
35 (44) 1V	100	1.6	0.33	0.66	340	8×11.5	ECR1VPH101M□□080011
	220	0.73	0.2	0.4	630	10×16	ECR1VPH221M□□100016
	330	0.49	0.12	0.24	770	10×20	ECR1VPH331M□□100020
	470	0.34	0.077	0.16	920	12.5×20	ECR1VPH471M□□125020
	1000	0.16	0.05	0.1	1380	16×25	ECR1VPH102M□□160025
50 (63) 1H	100	1.33	0.36	0.72	420	10×12.5	ECR1HPH101M□□100012
	220	0.61	0.2	0.4	655	10×20	ECR1HPH221M□□100020
	330	0.41	0.12	0.24	780	12.5×20	ECR1HPH331M□□125020
	470	0.29	0.1	0.2	1060	12.5×25	ECR1HPH471M□□125025
63 (79) 1J	47	2.55	0.68	2.1	245	8×11.5	ECR1JPH470M□□080011
	100	1.2	0.38	1.2	425	10×16	ECR1JPH101M□□100016
	220	0.55	0.18	0.54	665	12.5×20	ECR1JPH221M□□125020
	330	0.37	0.14	0.42	900	12.5×25	ECR1JPH331M□□125025

Customer products are available on request.

Typical Curves

