

CD 138 PC Series

85°C 5000小时

5000h at 85°C

- 85°C长寿命
- 高可靠性
- 适用于长寿命工业电源类产品
- Long Life at 85°C
- High Reliability
- High Current for High Professional Applications and High Power Inverter

项目 Item	特性 Characteristics
使用温度范围 (°C) Operating Temperature Range	-40~+85
额定电压范围 (V) Voltage Range	350~450
标称电容量范围 (μF) Capacitance Range	1000~18000
标称电容量允许偏差 Capacitance Tolerance (20°C, 120Hz)	± 20%
漏电流 (μA) Leakage Current	After 5 minutes at 20°C application voltage, leakage current is not more than 0.01CV or 5mA, whichever is smaller. C: Nominal Capacitance (μF) V: Rated Voltage (V)
损耗角正切值 (tg δ) Dissipation Factor (20°C, 120Hz)	Less than 0.15

项目 Item	使用寿命 Useful Life	负载寿命 Load Life	耐久试验 Endurance Test	高温贮存 shelf Life
寿命 Lifetime	5000h	5000h	5000h	1000h
漏电流 Leakage Current	≤ 初始规定值 Not more than specified value	≤ 初始规定值 Not more than specified value	≤ 初始规定值 Not more than specified value	≤ 初始规定值 Not more than specified value
容量变化率 Capacitance Change	初始值 ± 30% 以内 Within ± 30% of initial Value	初始值 ± 20% 以内 Within ± 20% of initial Value	初始值 ± 10% 以内 Within ± 10% of initial Value	初始值 ± 20% 以内 Within ± 20% of initial Value
损耗变化率 Dissipation Factor	≤ 初始规定值的3倍 Not more than 300% of specified value	≤ 初始规定值的2倍 Not more than 200% of specified value	≤ 初始规定值的1.3倍 Not more than 130% of specified value	≤ 初始规定值的2倍 Not more than 200% of specified value
使用条件 Condition 使用电压 Applied Voltage 使用电流 Applied Current 使用温度 Applied Temperature	U _R I _R 85°C	U _R 1.4 × I _R 40°C	U _R I _R 85°C	U _R =0 I _R =0 85°C 试验后: 施加额定电压30分 钟后恢复24小时 After test: UR to be applied for 30min >24h before measurement

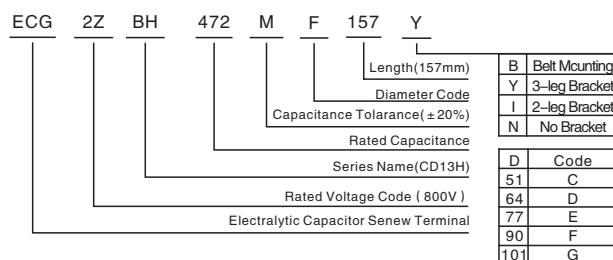
频率系数 Frequency Coefficient

频率 Frequency	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
系数 Coefficient	0.7	1.00	1.10	1.30	1.40

温度系数 Temperature Coefficient

温度 Temperature	+40	+60	+85
系数 Coefficient	1.89	1.67	1.00

Part Numbering system(Example:400V 4700 μF)



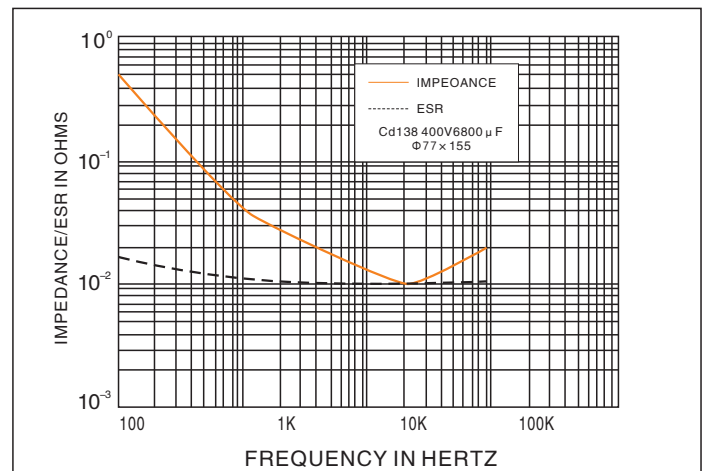
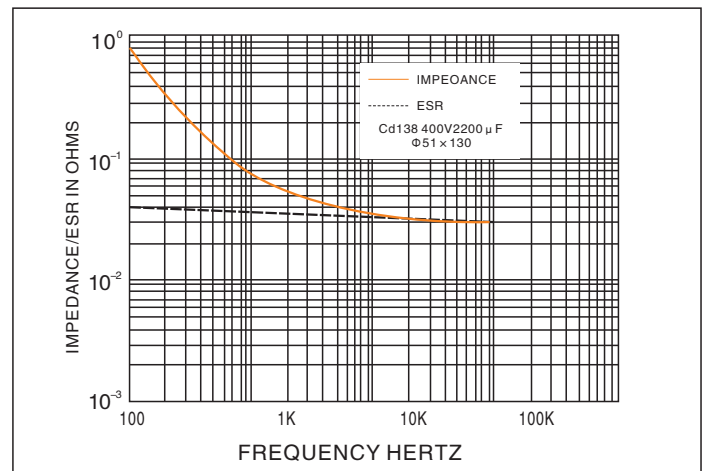
CD 138 PC 系列

Ratings for CD 138PC Series

UR (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C 120HZ	Typ ESR 20°C 120HZ	Rated Ripple Current 85°C 120HZ	Size Φ DXL	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	(--)
350 (400) 2V	1200	215	67	5.50	51 × 83	ECG2VPC122MC083□
	1500	172	55	6.10	51 × 83	ECG2VPC152MC083□
	1800	143	43	7.40	51 × 96	ECG2VPC182MC096□
	2200	117	30	8.20	51 × 96	ECG2VPC222MC096□
	2700	96	27	10.20	51 × 130	ECG2VPC272MC130□
	3300	78	23	11.30	51 × 130	ECG2VPC332MC130□
	3900	66	19	12.80	64 × 115	ECG2VPC392MD115□
	4700	55	16	14.80	64 × 115	ECG2VPC472MD115□
	5600	46	14	16.30	77 × 115	ECG2VPC562ME115□
	6800	38	13	18.80	77 × 130	ECG2VPC682ME130□
	8200	31	11	22.10	77 × 155	ECG2VPC822ME155□
	10000	26	10	25.90	90 × 157	ECG2VPC103MF157□
	12000	22	8	28.40	90 × 157	ECG2VPC123MF157□
	15000	17	6	34.60	90 × 196	ECG2VPC153MF196□
	18000	14	4	41.40	90 × 236	ECG2VPC183MF236□
400 (450) 2G	1000	215	82	5.00	51 × 83	ECG2GPC102MC083□
	1200	179	70	5.50	51 × 83	ECG2GPC122MC083□
	1500	143	50	6.70	51 × 96	ECG2GPC152MC096□
	1800	119	40	7.40	51 × 96	ECG2GPC182MC096□
	2200	98	28	9.20	51 × 130	ECG2GPC222MC130□
	2700	80	23	9.90	64 × 96	ECG2GPC272MD096□
	3300	65	21	11.80	64 × 115	ECG2GPC332MD115□
	3900	55	19	13.50	64 × 130	ECG2GPC392MD130□
	4700	46	15	14.90	77 × 115	ECG2GPC472ME115□
	5600	39	14	17.00	77 × 130	ECG2GPC562ME130□
	6800	32	13	20.20	77 × 115	ECG2GPC682ME115□
	8200	26	12	35.50	90 × 157	ECG2GPC822MF157□
	10000	22	10	25.90	90 × 157	ECG2GPC103MF157□
	12000	18	8	31.00	90 × 196	ECG2GPC123MF196□
	15000	14	6	37.50	90 × 236	ECG2GPC153MF236□

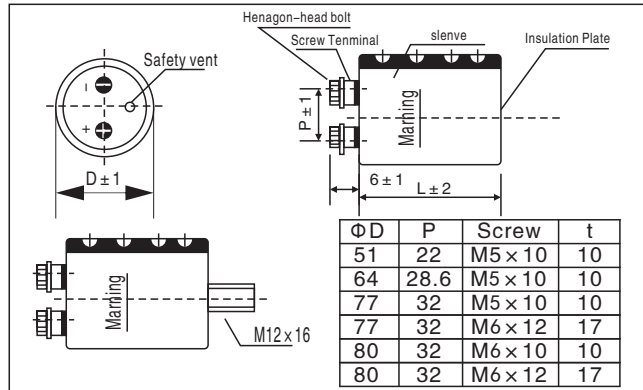
UR (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C 120HZ	Typ ESR 20°C 120HZ	Rated Ripple Current 85°C 120HZ	Size Φ DXL	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	(--)
450 (500) 2W	1000	215	93	5.00	51 × 83	ECG2WPC102MC083□
	1200	179	69	6.00	51 × 96	ECG2WPC122MC096□
	1500	143	56	7.20	51 × 115	ECG2WPC152MC115□
	1800	119	45	8.30	51 × 130	ECG2WPC182MC130□
	2200	98	35	9.00	64 × 96	ECG2WPC222MD096□
	2700	80	30	10.70	64 × 115	ECG2WPC272MD115□
	3300	65	24	12.40	64 × 130	ECG2WPC332MD130□
	3900	55	20	13.60	77 × 115	ECG2WPC392ME115□
	4700	46	16	15.60	77 × 130	ECG2WPC472ME130□
	5600	38	13	18.30	77 × 155	ECG2WPC562ME155□
	6800	32	11	21.40	90 × 157	ECG2WPC682MF157□
	8200	26	10	23.50	90 × 157	ECG2WPC822MF157□
	10000	22	9	28.30	90 × 196	ECG2WPC103MF196□
	12000	18	8	33.60	90 × 236	ECG2WPC123MF236□

特性曲线 Typical Curves

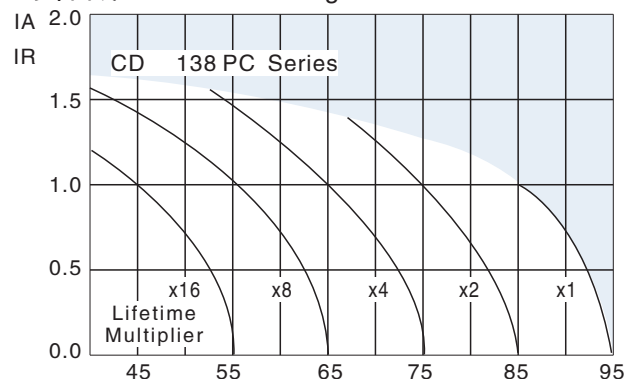


外形图尺寸表 Dimensions

mm



寿命曲线 Lifetime Diagram



IA=actual ripple current 120HZ. IR=rated ripple current at 120HZ, 85°C
Multiplier of Useful Life as a function of ambient temperature and ripple current load