

CD 138S Series

85℃ 10000小时

10000h at 85℃

- 85℃长寿命
- 高可靠性
- 耐大纹波
- 适用于变频器
- Long Life at 85℃
- High Reliability
- High-ripple Current
- For High Power Inverters

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	350~500
标称电容量范围 () Capacitance Range	1500~12000
标称电容量允许偏差 Capacitance Tolerance (20°C,120Hz)	± 20%
漏电流(μA) Leakage Current	After 5minutes at 20°C application voltage, leakage current is not more than 0.01CV or 5mA, whichever is smaller. C:Nominal Capacitance(μ F) V:Rated Voltage(V)
损耗角正切值(tg δ) Dissipation Factor (20°C,120Hz)	Less than 0.20

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	10000h	10000h	12000h	1000h
漏电流 Leakage Current	≤初始规定值 Not more than specitied value	≤初始规定值 Not more than specitied value	≤初始规定值 Not more than specitied value	≤初始规定值 Not more than specitied 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℃	U _R 1.4×I _R 40℃	U _R I _R =0 85℃	U _R =0 I _R =0 85℃ 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

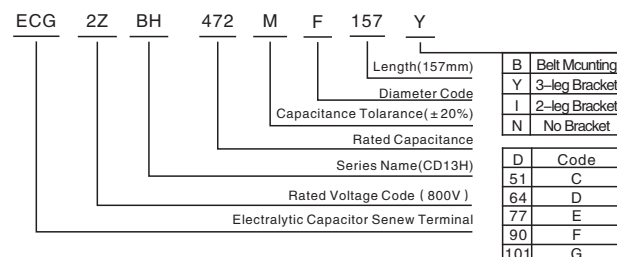
频率系数 Frequency Coefficient

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 μ F)



CD 138S 系列

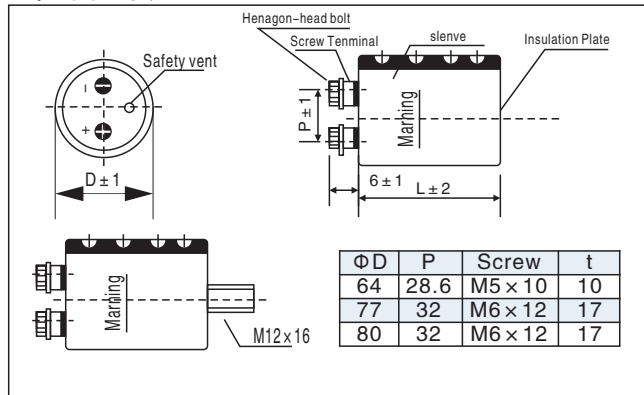
Ratings for CD 138S Series

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	3900	38	19	16.8	64 × 115	ECG2VWP392MD115□
	4700	32	16	19.4	64 × 1331	ECG2VWP472MD131□
		28	14	22.8	64 × 155	ECG2VWP562MD155□
	5500	24	12	24.8	77 × 121	ECG2VWP562ME121□
		26	13	25.6	90 × 106	ECG2VWP562MF106□
	6800	20	10	28.8	77 × 137	ECG2VWP682ME137□
		22	11	30.1	90 × 121	ECG2VWP682MF121□
	8200	20	10	33.7	77 × 161	ECG2VWP822ME161□
		24	12	34.6	90 × 137	ECG2VWP822MF137□
	10000	18	9	41.4	90 × 161	ECG2VWP103MF161□
400 (400) 2G	12000	16	8	45.0	90 × 161	ECG2VWP123MD161□
	2700	48	24	13.2	64 × 100	ECG2GWP272MD100□
	3300	42	21	16.3	61 × 131	ECG2GWP332MD131□
	3900	36	18	19.0	64 × 155	ECG2GWP392MD155□
		40	20	20.7	77 × 121	ECG2GWP392ME121□
		30	15	20.8	64 × 155	ECG2GWP472MD155□
	4700	30	15	23.6	90 × 106	ECG2GWP472MF106□
		28	14	23.9	77 × 137	ECG2GWP472ME137□
		24	12	26.1	77 × 137	ECG2GWP562ME137□
	5600	26	13	27.4	90 × 121	ECG2GWP562MF121□
	6800	20	10	30.6	77 × 161	ECG2GWP582ME161□
		22	11	31.5	90 × 137	ECG2GWP682MF137□
	8200	20	10	37.0	90 × 161	ECG2GWP822MF161□
	10000	18	9	41.1	90 × 161	ECG2GWP103MF161□

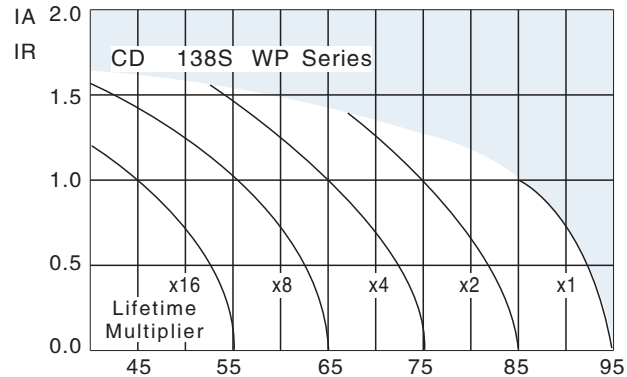
UR (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C 120HZ	Typ ESR 20°C 120HZ	Rated Ripple Current 85°C 120HZ	Size Φ DXL	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	(--)
450 (500) 2W	2200	84	42	12.0	64 × 100	ECG2WWP222MD100□
		92	46	14.4	77 × 96	ECG2WWP222ME096□
	2700	76	38	14.7	64 × 131	ECG2WWP272MD131□
	3300	60	30	17.5	64 × 155	ECG2WWP332MD155□
		60	30	17.7	77 × 121	ECG2WWP332ME121□
		54	27	19.0	64 × 155	ECG2WWP392MD155□
	3900	50	25	20.7	77 × 121	ECG2WWP392ME121□
		54	27	21.4	90 × 106	ECG2WWP392MF106□
	4700	36	18	23.9	77 × 137	ECG2WWP472ME137□
		40	20	25.1	90 × 121	ECG2WWP472MF121□
500 (550) 2H	5600	30	15	27.8	77 × 161	ECG2WWP562ME161□
		34	17	28.6	90 × 137	ECG2WWP562MF137□
	6800	28	14	33.8	90 × 161	ECG2WWP682MF161□
	8200	20	10	37.0	90 × 161	ECG2WWP822MF161□
	10000	18	9	42.4	90 × 178	ECG2WWP103MF178□
	1500	148	74	9.9	64 × 115	ECG2HWP152MD115□
	1800	148	74	11.5	64 × 131	ECG2HWP182MD131□
	2200	106	53	13.5	64 × 155	ECG2HWP222MD155□
	2700	66	33	17.2	77 × 121	ECG2HWP272ME121□
		62	31	16.9	90 × 106	ECG2HWP332MF106□
	3300	60	30	21.3	77 × 161	ECG2HWP332ME161□
	3900	52	26	21.8	90 × 121	ECG2HWP392MF121□
		50	25	23.2	77 × 161	ECG2HWP392ME161□
	4200	56	28	23.6	77 × 178	ECG2HWP422MF161□
	4700	40	20	25.1	90 × 137	ECG2HWP472MF137□
	5600	36	18	29.1	90 × 161	ECG2HWP562MF161□
	6800	32	16	33.4	90 × 178	ECG2HWP682MF178□

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