

**C-CON**

# 双电层电容器

## ELECTRIC DOUBLE LAYER CAPACITORS

FMT

**FMT** 系列  
SERIES

- Double cells in series 串联双单体模组
- Higher temperature type 更高工作温度
- Long lifetime with over 500,000 duty cycles 高达 500,000 次循环寿命
- Used in Vehicle data recorder, Intelligent instrument,  
Vacuum switch,Digital camera,Motor drive,Clock circuit,UPS,Toy,RAM  
汽车记录仪、智能仪表、真空开关、数码相机、马达驱动、时钟电路、UPS、玩具、RAM
- 85°C 1000hours

**SPECIFICATIONS 性能要求**

Item 项目	Performance Characteristics 使用特性					
Operating Temperature Range 工作温度范围	-40°C ~ +85°C					
Rated Voltage 额定电压	5.4 V.DC					
Surge Voltage 浪涌电压	5.7 V.DC					
Capacitance Tolerance 容量偏差	-20%~+50%					
DC Leakage Current 漏电流(72h)	After 72 hours application of rated voltage at +25°C 在+25°C下施加额定电压 72 小时后					
Characteristics at High and Low Temperatures 高温及低温特性	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Capacitance range 容量偏差</td><td style="width: 50%;">Within ±30% of the initial value. ΔCs≤初始测量值的 30%</td></tr> <tr> <td>ESR range 电阻偏差</td><td>Less than 200% of the initial value. ΔESRs≤初始测量值的 200%</td></tr> </table>	Capacitance range 容量偏差	Within ±30% of the initial value. ΔCs≤初始测量值的 30%	ESR range 电阻偏差	Less than 200% of the initial value. ΔESRs≤初始测量值的 200%	
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Shelf Life 贮存寿命	The specifications shall be met after storage at upper category temperature for 1000 hours 工作温度上限下无负荷贮存 1000 小时后电容器符合以下的限值					
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High Temperature Loaded 耐久性测试	The specifications shall be met after rated voltage applied at upper category temperature for 1000 hours 工作温度上限下负载额定电压 1000 小时后电容器符合以下的限值					
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Cycle Life 循环寿命	The specifications shall be met after 500,000 cycles at 25°C, cycle of charge/discharge from V <sub>R</sub> to 1/2V <sub>R</sub> +25°C下以恒定电流使电容器在额定电压和半额定电压之间循环充放电 500,000 次					
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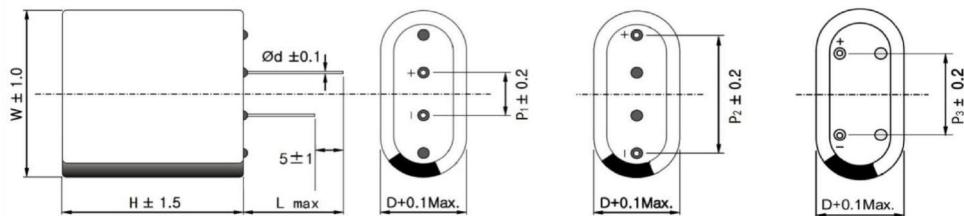
FMT

**Part Number 产品型号体系表**

<b>EC</b>	<b>FMT</b>	<b>□ R □</b>	<b>□ □ □</b>	<b>□</b>	<b>□ □ □ □ □ □</b>
EDLC 双电层电容器	Series 系列代码	Rated Voltage 额定电压	Rated Capacitance 额定容量	Capacitance Tolerance 容量偏差	Dimension Code 尺寸代码

※容量偏差 (Capacitance Tolerance) □: M:± 20%; Q:-10%~+30%; V:-10%~+20%; S:-20%~+50%; A:0%~+20%

**Dimensions (mm) 尺寸**



D	8	10	12.5
P	4.7/12.0/8.5	5.5/15.0/10.5	7.5/18.0/13.0
d	0.6	0.6	0.6

**Standard size 标准品一览表**

Rated Voltage 额定电压 (V.DC)	Rated Capacitance 额定容量(F)	ESR(mΩ)		Leakage Current 漏电流 (μA/ 72hours)	ΦD×W×H (mm)	Part No. 编号
		AC (1kHz)	DC			
5.4	0.5	650	1300	5	8.5×17×15	ECFMT5R4504S081715
	1.5	280	560	8	8.5×17×23	ECFMT5R4155S081723
	2.5	140	280	10	8.5×17×23	ECFMT5R4255S081723
	4.0	120	240	15	11×21×23	ECFMT5R4405S112123
	5.0	110	220	18	11×21×27	ECFMT5R4505S112127
	7.5	90	180	20	13×26×28	ECFMT5R4755S132628