

Aluminum Electrolytic Capacitors

Junzl

MA 5mmL标准品 (CD11M型)

● 5mm高度, 微型体积。

Be 5mm in height and mini-size.

● 适用于照相机, 汽车音响, 随身听等装置。

Suitable for camera, car audio, mini-audio sets, etc.



■ Specifications

项目 Item	特性 Characteristics						
工作温度范围 Operating temperature range	-40°C~+85°C						
额定电压范围 Rated voltage range	4V~50V DC						
静电容量范围 Nominal capacitance range	0.1μF~470μF						
静电容量误差 Capacitance tolerance	±20% (120Hz·20°C)						
漏电流 (20°C) leakage current(20°C)	I≤0.01CV or 3μA(whichever is greater) after 2 minute						
	I: Leakage current C: Normal capacitance V: Rated voltage						
损耗角正切 Dissipation factor (120Hz·20°C)	Rated voltage(V)	4	6.3	10	16	25	35
	tgδ(MAX)	0.35	0.24	0.20	0.16	0.14	0.12
低温特性 Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(v)	4	6.3	10	16	25	35
	Z—25°C/Z+20°C	7	4	3	2	2	2
	Z—40°C/Z+20°C	15	8	6	4	3	3
高温负荷特性 Load Life	After applying rated voltage for 1000 hours at 85°C then resumed 16 hours:						
	Capacitance change	Within ±20% of the initial measured value					
	tgδ	≤200% of the initial specified value					
	Leakage current	≤initial specified value					
高温贮存特性 Shelf Life	After storage for 1000 hours at 85°C then resumed 16 hours:						
	Capacitance change	Within ±20% of the initial measured value					
	tgδ	≤200% of the initial specified value					
	Leakage current	≤initial specified value					

■ Diagram of Dimensions(mm)

<p>Safety vent (ø8 up) * ø8.3 is available by request</p>	φ D	3	4	5	6.3	8
	F±0.5	1.0	1.5	2.0	2.5	3.5
	φ d±0.05	0.40		0.45		
	α				1.0	

■ Multiplier for Ripple Current vs. Frequency:

CAP(uF)Hz	50(60)	120	1K	≥10K
CAP<100	0.80	1.00	1.30	1.50
CAP≥100	0.80	1.00	1.15	1.20

■ Multiplier for Ripple Current vs. Temperature:

Temperature °C	~55	60	70	85
Factor	1.65	1.50	1.30	1.00

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■ Standard Ratings

WV(Coad)		4V (0G)		6. 3V (0J)		10V (1A)		16V (1C)	
C(uf)	Coad	Φ D×L	R. C.	Φ D×L	R. C.	Φ D×L	R. C.	Φ D×L	R. C.
0. 1	0R1								
0. 22	R22								
0. 33	R33								
0. 47	R47								
1	010								
2. 2	2R2								
3. 3	3R3								
4. 7	4R7							3×5	13
10	100			3×5	15	4×5	17	4×5	23
22	220	3×5	19	4×5	28	4×5	33	4×5	37
33	330	4×5	28	4×5	37	5×5	41	5×5	49
47	470	4×5	33	5×5	45	6. 3×5	52	6. 3×5	58
100	101	5×5	56	6. 3×5	70	8×5	80	8×5	92
220	221	6. 3×5	96	8×5	110	8×5	135		
330	331	8×5	145	8×5	170				
470	471	8×5	185						

WV(Coad)		25V (1E)		35V (1V)		50V (1H)			
C(uf)	Coad	Φ D×L	R. C.	Φ D×L	R. C.	Φ D×L	R. C.		
0. 1	0R1					3(4) × 5	1.0		
0. 22	R22					3(4) × 5	2.0		
0. 33	R33					3(4) × 5	2.8		
0. 47	R47					3(4) × 5	4.0		
1	010					3(4) × 5	8.4		
2. 2	2R2			3×5	8. 4	4×5	13		
3. 3	3R3	3×5	10	4×5	14	4×5	17		
4. 7	4R7	4×5	16	4×5	18	5×5	20		
10	100	5×5	27	5×5	29	6. 3×5	33		
22	220	6. 3×5	42	6. 3×5	46	8×5	52		
33	330	6. 3×5	52	8×5	62	8×5	71		
47	470	8×5	70	8×5	80				
100	101	8×5	110						

Permit ripple current : (mA rms, 85°C , 120HZ)

Case size: Φ D×L (mm)