

ALCHIP™-MZA系列 Upgrade!

- 表面安装
- 低z
- 耐清洗
- RoHS2适应品



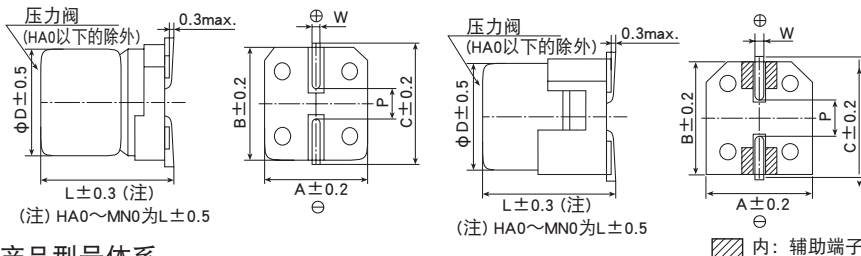
- 额定电压6.3~100V。
- 低阻抗、保证105℃ 2,000~5,000 小时。
- 可对耐振构造产品。
- 符合AEC-Q200。详情请另行咨询。

规格表

| 项目 | 性能 | |
|-------------------|---|---|
| 工作温度范围 | -55~+105℃ | |
| 额定电压范围 | 6.3~100V _{dc} | |
| 静电容量容许差 | ±20% (M) (20℃、120Hz) | |
| 漏电流 | I ≤ 0.01CV 或者 3μA 中任意一个较大值 I: 漏电流 (μA)、C: 静电容量 (μF)、V: 额定电压 (V _{dc}) (20℃、2分值) | |
| 损失角正切值 (tan δ) | 在下表的数值以下 | |
| | 额定电压 (V _{dc}) | 6.3V 10V 16V 25V 35V 50V 63V 80V 100V |
| | tan δ (Max.) | D61~JA0 0.26 0.19 0.16 0.14 0.12 0.10 0.08 0.08 0.08 — KE0~MN0 — — — 0.16 0.14 0.12 0.12 0.10 0.10 |
| | 但是, 超过1,000 μF的每增加1,000 μF 则tan δ 设定增加0.02。 (20℃、120Hz) | |
| 温度特性 (阻抗比 Max右表值) | 额定电压 (V _{dc}) | 6.3V 10V 16V 25V 35V 50V 63V 80V 100V |
| | Z (-25℃) / Z (+20℃) | 2 2 2 2 2 2 2 2 2 |
| | Z (-40℃) / Z (+20℃) | 3 3 3 3 3 3 3 3 3 |
| | Z (-55℃) / Z (+20℃) | 4 4 4 3 3 3 3 3 3 |
| | (120Hz) | |
| 耐久性 | 在105℃环境中, 连续加载规定时间的额定电压后, 待温度恢复到20℃进行测量时, 应满足以下要求。 | |
| | 规定时间 | D61~JA0 : 2,000 小时 KE0~MN0 : 5,000 小时 |
| | 静电容量变化率 | ≤ 初始值的 ±30% |
| | 损失角正切值 | ≤ 初始规格值的200% |
| | 漏电流 | ≤ 初始规格值 |
| 容许清洗条件 | 请参照Technical note 第6项「基板清洗」 | |

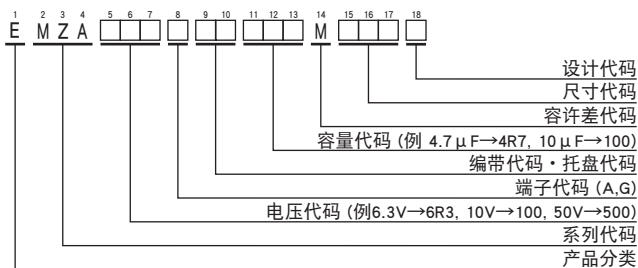
尺寸图 (CE32形) [mm]

- 端子代码: A
- 尺寸代码: D61~MN0
- 端子代码: G (耐振构造)
- 尺寸代码: F61~MN0 (带辅助端子)



| 尺寸代码 | D | L | A | B | C | W | P |
|------|------|------|------|------|------|---------|-----|
| D61 | 4 | 5.8 | 4.3 | 4.3 | 5.1 | 0.5~0.8 | 1.0 |
| E61 | 5 | 5.8 | 5.3 | 5.3 | 5.9 | 0.5~0.8 | 1.4 |
| F61 | 6.3 | 5.8 | 6.6 | 6.6 | 7.2 | 0.5~0.8 | 1.9 |
| F80 | 6.3 | 7.7 | 6.6 | 6.6 | 7.2 | 0.5~0.8 | 1.9 |
| HA0 | 8 | 10.0 | 8.3 | 8.3 | 9.0 | 0.7~1.1 | 3.1 |
| JA0 | 10 | 10.0 | 10.3 | 10.3 | 11.0 | 0.7~1.1 | 4.5 |
| KE0 | 12.5 | 13.5 | 13.0 | 13.0 | 13.7 | 1.0~1.3 | 4.2 |
| KG5 | 12.5 | 16.0 | 13.0 | 13.0 | 13.7 | 1.0~1.3 | 4.2 |
| LH0 | 16 | 16.5 | 17.0 | 17.0 | 18.0 | 1.0~1.3 | 6.5 |
| LN0 | 16 | 21.5 | 17.0 | 17.0 | 18.0 | 1.0~1.3 | 6.5 |
| MH0 | 18 | 16.5 | 19.0 | 19.0 | 20.0 | 1.0~1.3 | 6.5 |
| MN0 | 18 | 21.5 | 19.0 | 19.0 | 20.0 | 1.0~1.3 | 6.5 |

产品型号体系



产品型号代码的详细介绍请参考「产品型号表示方法 (贴片型)」。

额定纹波电流频率修正系数

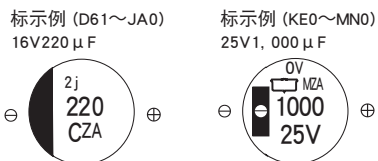
纹波频率与标准品一览表的规定值相异时, 请使用小于乘以下表系数所得之值

频率修正系数

| 尺寸代码 | 静电容量 (μF) | 频率 (Hz) | | | |
|---------|-------------|---------|------|------|------|
| | | 120 | 1k | 10k | 100k |
| D61~JA0 | 3.3~4.7 | 0.35 | 0.70 | 0.90 | 1.00 |
| | 10~100 | 0.40 | 0.75 | 0.90 | 1.00 |
| | 220~470 | 0.50 | 0.85 | 0.94 | 1.00 |
| | 680~1,500 | 0.60 | 0.87 | 0.95 | 1.00 |
| KE0~MN0 | 110~200 | 0.40 | 0.75 | 0.90 | 1.00 |
| | 220~620 | 0.50 | 0.85 | 0.94 | 1.00 |
| | 680~1,800 | 0.60 | 0.87 | 0.95 | 1.00 |
| | 2,400~3,000 | 0.75 | 0.90 | 0.95 | 1.00 |
| | 3,900 | 0.85 | 0.95 | 0.98 | 1.00 |

※铝电解电容器由于在纹波电流叠加时自我发热, 温度上升而老化, 每升温5℃寿命减少一半。要想保持长寿命请在使用过程中降低纹波电流。

标示



产品的额定电压标示 (D61~JA0)

| 额定电压 (V _{dc}) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 |
|-------------------------|-----|----|----|----|----|----|----|----|
| 标示符号 | j | A | C | E | V | H | J | K |

◆标准品一览表

| WV (V _{dc}) | Cap (μF) | 尺寸 代码 | 阻抗 (Ω _{max} /100kHz) | | 额定纹波电流 (mA _{rms} / 105°C, 100kHz) | 产品型号 | WV (V _{dc}) | Cap (μF) | 尺寸 代码 | 阻抗 (Ω _{max} /100kHz) | | 额定纹波电流 (mA _{rms} / 105°C, 100kHz) | 产品型号 | |
|--------------------------|-------------|----------|----------------------------------|-------|--|--------------------|--------------------------|-------------|----------|----------------------------------|-------|--|--------------------|--------------------|
| | | | 20°C | -40°C | | | | | | 20°C | -40°C | | | |
| 6.3 | 22 | D61 | 1.35 | - | 90 | EMZA6R3ARA220MD61G | 35 | 330 | JA0 | 0.08 | - | 850 | EMZA350□RA331MJA0G | |
| | 47 | D61 | 1.35 | - | 90 | EMZA6R3ARA470MD61G | | 620 | KE0 | 0.060 | 0.30 | 1,320 | EMZA350□RA621MKE0S | |
| | 47 | E61 | 0.70 | - | 160 | EMZA6R3ARA470ME61G | | 820 | KG5 | 0.056 | 0.28 | 1,470 | EMZA350□RA821MKG5S | |
| | 100 | E61 | 0.70 | - | 160 | EMZA6R3ARA101ME61G | | 1,200 | LH0 | 0.047 | 0.24 | 1,820 | EMZA350□RA122MLH0S | |
| | 100 | F61 | 0.36 | - | 240 | EMZA6R3□RA101MF61G | | 1,600 | MH0 | 0.045 | 0.23 | 2,060 | EMZA350□RA162MMH0S | |
| | 220 | F61 | 0.36 | - | 240 | EMZA6R3□RA221MF61G | | 1,800 | LNO | 0.034 | 0.17 | 2,400 | EMZA350□RA182MLN0S | |
| | 330 | F80 | 0.34 | - | 280 | EMZA6R3□RA331MF80G | | 2,400 | MNO | 0.032 | 0.16 | 2,640 | EMZA350□RA242MMN0S | |
| | 470 | HA0 | 0.16 | - | 600 | EMZA6R3□RA471MHA0G | | 50 | 4.7 | D61 | 2.9 | - | 60 | EMZA500ARA4R7MD61G |
| | 1,000 | HA0 | 0.16 | - | 600 | EMZA6R3□RA102MHA0G | | | 10 | E61 | 1.52 | - | 85 | EMZA500ARA100ME61G |
| 1,500 | JA0 | 0.08 | - | 850 | EMZA6R3□RA152MJA0G | 10 | F61 | | 0.88 | - | 165 | EMZA500□RA100MF61G | | |
| | | | | | | 22 | F61 | | 0.88 | - | 165 | EMZA500□RA220MF61G | | |
| 10 | 22 | D61 | 1.35 | - | 90 | EMZA100ARA220MD61G | 33 | F80 | 0.68 | - | 195 | EMZA500□RA330MF80G | | |
| | 33 | D61 | 1.35 | - | 90 | EMZA100ARA330MD61G | 47 | F80 | 0.68 | - | 195 | EMZA500□RA470MF80G | | |
| | 33 | E61 | 0.70 | - | 160 | EMZA100ARA330ME61G | 100 | HA0 | 0.34 | - | 350 | EMZA500□RA101MHA0G | | |
| | 220 | F80 | 0.34 | - | 280 | EMZA100□RA221MF80G | 220 | JA0 | 0.18 | - | 670 | EMZA500□RA221MJA0G | | |
| | 330 | HA0 | 0.16 | - | 600 | EMZA100□RA331MHA0G | 330 | KE0 | 0.11 | 0.55 | 980 | EMZA500□RA331MKE0S | | |
| | 470 | HA0 | 0.16 | - | 600 | EMZA100□RA471MHA0G | 430 | KG5 | 0.10 | 0.50 | 1,090 | EMZA500□RA431MKG5S | | |
| | 680 | HA0 | 0.16 | - | 600 | EMZA100□RA681MHA0G | 620 | LH0 | 0.087 | 0.44 | 1,320 | EMZA500□RA621MLH0S | | |
| | 1,000 | JA0 | 0.08 | - | 850 | EMZA100□RA102MJA0G | 820 | MH0 | 0.087 | 0.44 | 1,420 | EMZA500□RA821MMH0S | | |
| 16 | 10 | D61 | 1.35 | - | 90 | EMZA160ARA100MD61G | 1,000 | LNO | 0.050 | 0.25 | 1,910 | EMZA500□RA102MLN0S | | |
| | 22 | D61 | 1.35 | - | 90 | EMZA160ARA220MD61G | 1,300 | MNO | 0.050 | 0.25 | 2,180 | EMZA500□RA132MMN0S | | |
| | 22 | E61 | 0.70 | - | 160 | EMZA160ARA220ME61G | 63 | 4.7 | E61 | 4.8 | - | 50 | EMZA630ARA4R7ME61G | |
| | 47 | E61 | 0.70 | - | 160 | EMZA160ARA470ME61G | | 10 | F61 | 2.2 | - | 80 | EMZA630□RA100MF61G | |
| | 47 | F61 | 0.36 | - | 240 | EMZA160□RA470MF61G | | 22 | F80 | 2.1 | - | 120 | EMZA630□RA220MF80G | |
| | 100 | F61 | 0.36 | - | 240 | EMZA160□RA101MF61G | | 33 | HA0 | 0.70 | - | 250 | EMZA630□RA330MHA0G | |
| | 220 | F80 | 0.34 | - | 280 | EMZA160□RA221MF80G | | 47 | HA0 | 0.70 | - | 250 | EMZA630□RA470MHA0G | |
| | 330 | HA0 | 0.16 | - | 600 | EMZA160□RA331MHA0G | | 68 | HA0 | 0.70 | - | 250 | EMZA630□RA680MHA0G | |
| | 470 | HA0 | 0.16 | - | 600 | EMZA160□RA471MHA0G | | 100 | JA0 | 0.45 | - | 400 | EMZA630□RA101MJA0G | |
| 680 | JA0 | 0.08 | - | 850 | EMZA160□RA681MJA0G | 240 | | KE0 | 0.19 | 1.54 | 880 | EMZA630□RA241MKE0S | | |
| | | | | | | 300 | | KG5 | 0.17 | 1.19 | 1,000 | EMZA630□RA301MKG5S | | |
| 25 | 10 | D61 | 1.35 | - | 90 | EMZA250ARA100MD61G | | 430 | LH0 | 0.15 | 1.05 | 1,220 | EMZA630□RA431MLH0S | |
| | 22 | E61 | 0.70 | - | 160 | EMZA250ARA220ME61G | | 560 | MH0 | 0.12 | 0.84 | 1,430 | EMZA630□RA561MMH0S | |
| | 33 | E61 | 0.70 | - | 160 | EMZA250ARA330ME61G | | 680 | LNO | 0.085 | 0.58 | 1,790 | EMZA630□RA681MLN0S | |
| | 33 | F61 | 0.36 | - | 240 | EMZA250□RA330MF61G | | 910 | MNO | 0.070 | 0.49 | 1,960 | EMZA630□RA911MMN0S | |
| | 47 | F61 | 0.36 | - | 240 | EMZA250□RA470MF61G | 80 | 3.3 | E61 | 5.0 | - | 25 | EMZA800ARA3R3ME61G | |
| | 100 | F80 | 0.34 | - | 280 | EMZA250□RA101MF80G | | 4.7 | F61 | 3.0 | - | 40 | EMZA800□RA4R7MF61G | |
| | 220 | HA0 | 0.16 | - | 600 | EMZA250□RA221MHA0G | | 10 | F80 | 2.4 | - | 60 | EMZA800□RA100MF80G | |
| | 330 | HA0 | 0.16 | - | 600 | EMZA250□RA331MHA0G | | 22 | HA0 | 1.3 | - | 130 | EMZA800□RA220MHA0G | |
| | 470 | JA0 | 0.08 | - | 850 | EMZA250□RA471MJA0G | | 33 | HA0 | 1.3 | - | 130 | EMZA800□RA330MHA0G | |
| | 1,000 | KE0 | 0.060 | 0.30 | 1,320 | EMZA250□RA102MKE0S | | 47 | JA0 | 0.70 | - | 200 | EMZA800□RA470MJA0G | |
| | 1,300 | KG5 | 0.056 | 0.28 | 1,470 | EMZA250□RA132MKG5S | | 150 | KE0 | 0.22 | 1.54 | 810 | EMZA800□RA151MKE0S | |
| | 1,800 | LH0 | 0.047 | 0.24 | 1,820 | EMZA250□RA182MLH0S | | 220 | KG5 | 0.17 | 1.19 | 1,000 | EMZA800□RA221MKG5S | |
| | 2,400 | MH0 | 0.045 | 0.23 | 2,060 | EMZA250□RA242MMH0S | | 330 | LH0 | 0.15 | 1.05 | 1,220 | EMZA800□RA331MLH0S | |
| 3,000 | LNO | 0.034 | 0.17 | 2,400 | EMZA250□RA302MLN0S | 430 | | MH0 | 0.12 | 0.84 | 1,430 | EMZA800□RA431MMH0S | | |
| 3,900 | MNO | 0.032 | 0.16 | 2,640 | EMZA250□RA392MMN0S | 470 | | LNO | 0.085 | 0.58 | 1,790 | EMZA800□RA471MLN0S | | |
| 35 | 4.7 | D61 | 1.35 | - | 90 | EMZA350ARA4R7MD61G | | 680 | MNO | 0.070 | 0.49 | 1,960 | EMZA800□RA681MMN0S | |
| | 10 | D61 | 1.35 | - | 90 | EMZA350ARA100MD61G | | 100 | 110 | KE0 | 0.28 | 2.24 | 740 | EMZA101□RA111MKE0S |
| | 10 | E61 | 0.70 | - | 160 | EMZA350ARA100ME61G | 130 | | KG5 | 0.21 | 1.68 | 900 | EMZA101□RA131MKG5S | |
| | 22 | E61 | 0.70 | - | 160 | EMZA350ARA220ME61G | 200 | | LH0 | 0.18 | 1.44 | 1,090 | EMZA101□RA201MLH0S | |
| | 33 | F61 | 0.36 | - | 240 | EMZA350□RA330MF61G | 270 | | MH0 | 0.15 | 1.2 | 1,280 | EMZA101□RA271MMH0S | |
| | 47 | F61 | 0.36 | - | 240 | EMZA350□RA470MF61G | 330 | | LNO | 0.11 | 0.88 | 1,580 | EMZA101□RA331MLN0S | |
| | 100 | F80 | 0.34 | - | 280 | EMZA350□RA101MF80G | 430 | | MNO | 0.091 | 0.73 | 1,690 | EMZA101□RA431MMN0S | |
| | 100 | HA0 | 0.16 | - | 600 | EMZA350□RA101MHA0G | | | | | | | | |
| | 220 | HA0 | 0.16 | - | 600 | EMZA350□RA221MHA0G | | | | | | | | |

□内为端子代码。