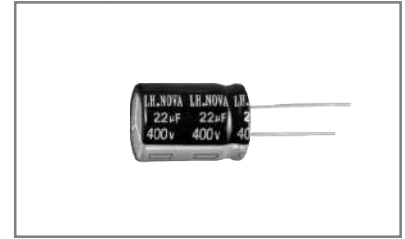


ARV

ARV Series Aluminum Electrolytic Capacitor



◆ Feature

- * : 130°C 5000
Load life:130°C 5000 hours.
- *
High temperature.
- * AEC-Q200
Compliant to the AEC-Q200 Directive.
- * RoHS
Compliant to the RoHS Directive.

◆ Application

- *
Ideally suited for automobile modules switching power supplies, and other electronic products.

◆ Part Number

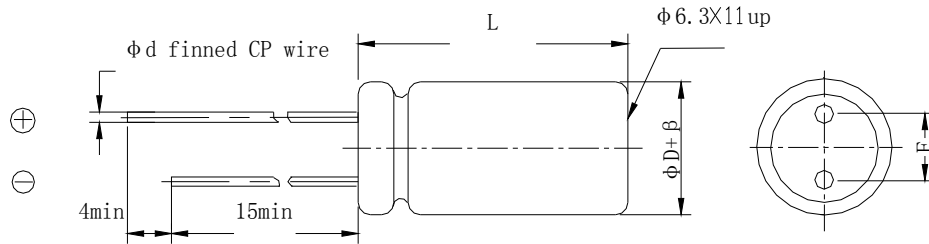
| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 2 | 2 | 0 | L | F | M | A | A | 1 | 2 | A | V | N | 0 | 3 | B | 0 | |
| | ② | | | ③ | | ④ | | | ⑤ | | ⑥ | | ⑦ | ⑧ | | ⑨ | | ⑩ |

| | | | | | | | | | |
|------|---------|------|---------|------|-----------------------|------|-----------|------|---|
| Code | Type | Code | Voltage | Code | Dimensions DxL(mm) | Code | Trademark | Code | Internal Code |
| 8 | Product | LO | 4 | 0511 | 5x11 | N | LH.NOVA | 3B | 130°C 130°C Automotive electronics cartronics |
| | | LA | 6.3 | AA12 | 6.3x12 | | | | |
| | | LB | 10 | 0812 | 8x12 | | | | |
| | | LC | 16 | 1020 | 10x20 | | | | |
| | | LD | 25 | AB20 | 12.5x20 | | | | |
| | | LE | 35 | | | | | | |
| | | LF | 50 | | | | | | |
| | | LG | 63 | | | | | | |
| | | MA | 100 | | | | | | |
| | | VA | 400 | | | | | | |

| | |
|------|----------------------|
| Code | Lead Forming Type |
| 0 | Bulk |

P original type(vertical) tape

| | | | | | | |
|------|---------------------|------|-----------------------------------|------|--------|------|
| Code | Nominal Capacitance | Code | Tolerance | Code | Series | Code |
| 1R0 | 1uF | K | ±10% | AV | ARV | 0 |
| 2R2 | 2.2uF | V | ± ²⁰ / ₁₀ % | | | |
| 221 | 220uF | M | ±20% | | | |

Product Structure


| (mm) | ±0.5 | | | ±1.0 | | | | |
|-----------|-------|-----|-------|--------|----------|----------------|----------------|-------------|
| D(mm) | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 | 22 |
| F±0.5(mm) | 2. | 2.5 | 3.5 | 5.0 | | 7.5 | | 10.0 |
| d±0.1(mm) | 0.5 | | 0.6 | | | 0.8 | | |
| L(mm) | 11,12 | | 12,16 | 12,16, | 16,20,25 | 16,20,25,30,35 | 20,25,30,35,40 | 25,30,35,40 |
| | L±2.0 | | | | | | | |

Main specifications

| | Performance Characteristics | | | | | | | | |
|-----------------------------|---|---|--|------|------|------|------|--------|---------|
| Rated Voltage Range | 10~100V.DC | 160~450V.DC | | | | | | | |
| Operating Temperature Range | -40 ~+130 | -40 ~+130 | | | | | | | |
| Nominal Capacitance Range | 1~4700μ F | 4.7~220μ F | | | | | | | |
| Capacitance Tolerance | ±20% M +25°C 120Hz | | | | | | | | |
| Leakage Current (25°C) | (V) Rated working voltage | 10~100 | 160~450 | | | | | | |
| | Leakage current | 2 I 0.01CV 3(μA), After 2 min. I 0.01CV or 3(μA), Whichever is greater. | 2 I 0.03CV+25(μA) After 2 min . I 0.03CV+25(μA) | | | | | | |
| | C | μF Nominal Capacitance in μF | | | | | | | |
| | V | V Rated working voltage in V | | | | | | | |
| DF Dissipation Factor | (V) Rated working voltage | 10 | 16 | 25 | 35 | 50 | 63 | 80~100 | 160~450 |
| | DF(MAX) (25°C, 120Hz) | 0.35 | 0.22 | 0.20 | 0.17 | 0.15 | 0.12 | 0.10 | 0.15 |
| | | 1000μF | 1000μF | DF | 0.02 | | | | |
| | For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. | | | | | | | | |

Surge Voltage

| | | | | | | | | | | | | | |
|------------------------------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| (V) Rated working voltage | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 |
|------------------------------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|

Dimensions and ripple current

| Cap/μF \ WV/V | 10 | | 16 | | 25 | | 35 | | 50 | | 63 | | 100 | |
|---------------|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|--------|-----|---------------|------------|
| | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) |
| 10 | | | | | | | | | 5x11 | 40 | 5x11 | 45 | 6.3x12 | 60 |
| 22 | | | | | | | | | 5x11 | 40 | 6.3x12 | 90 | 6.3x12 | 95 |
| 47 | | | | | | | | | 5x11 | 95 | 6.3x12 | 100 | 8x16 10x12 | 200 200 |
| 100 | | | | | | | | | 8x12 | 480 | 10x12 | 520 | 10x20 | 550 |
| 150 | | | | | | | | | 10x12 | 530 | 10x16 | 560 | 10x16 | 600 |
| 220 | | | | | 10x12 | 480 | 10x12 | 580 | 10x16 | 680 | 10x20 | 700 | 10x20 | 800 |

(1) 外形尺寸 Case Size D×L(mm)

(2) 最大允许纹波电流 Max allowable ripple current (mA rms +130℃,100kHz)

| Cap/μF \ WV/V | 160 | | 200 | | 250 | | 350 | | 400 | | 450 | |
|---------------|------------------|------------|----------------|------------|---------------|-----------|--------------------|------------|--------------------|------------|---------|-----|
| | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) |
| 1.0 | | | | | | | 8x12 | 50 | 6.3x12 8x12 | 20 54 | 8x12 | 58 |
| 1.2 | | | | | | | 8x12 | 53 | 8x12 | 65 | 8x12 | 65 |
| 1.5 | | | | | | | 8x16 | 73 | 8x12 | 73 | 8x16 | 70 |
| 1.8 | | | | | | | 8x16 | 75 | 8x12 | 75 | 8x16 | 74 |
| 2.2 | | | | | 8x12 | 65 | 10x16 | 70 | 10x16 | 73 | 10x16 | 64 |
| 2.8 | | | 8x12 | 65 | 8x12 | 65 | 10x16 | 90 | 10x16 | 80 | 10x16 | 77 |
| 3.3 | 8x12 | 70 | 8x12 | 75 | 8x12 | 80 | 10x16 | 100 | 8x12 | 78 | 10x20 | 80 |
| 4.7 | 8x12 | 70 | 8x16 | 80 | 8x16 | 85 | 8x12 10x20 | 95 105 | 10x16 10x20 | 100 100 | 10x20 | 110 |
| 5.6 | 8x16 | 82 | 8x16 | 148 | 10x16 | 150 | 12.5x20 | 165 | 12.5x20 | 165 | 12.5x20 | 144 |
| 6.8 | 8x16 | 96 | 8x16 | 160 | 8x12 10x16 | 95 169 | 10x20 12.5x20 | 190 200 | 10x16 12.5x16 | 100 225 | 12.5x20 | 175 |
| 8.2 | 10x16 | 183 | 10x16 | 203 | 10x16 | 203 | 12.5x20 | 190 | 12.5x20 | 185 | 12.5x20 | 100 |
| 10 | 10x16 | 223 | 10x16 | 230 | 10x20 | 250 | 12.5x20 12.5x25 | 250 250 | 12.5x25 | 280 | 12.5x25 | 225 |
| 15 | 10x16 | 340 | 10x16 10x20 | 300 335 | 10x20 | 327 | 12.5x25 | 335 | 12.5x20 12.5x25 | 240 335 | 12.5x25 | 295 |
| 22 | 10x20 | 400 | 12.5x20 | 430 | 12.5x20 | 430 | 16x25 | 450 | 16x25 | 480 | 16x30 | 420 |
| 33 | 12.5x20 | 480 | 12.5x20 | 500 | 12.5x25 | 530 | 16x30 | 535 | 16x30 | 500 | 18x30 | 500 |
| 47 | 10x20 12.5x25 | 450 590 | 12.5x25 | 650 | 16x25 | 690 | 18x30 | 700 | 18x35 | 750 | 18x35 | 615 |
| 68 | 16x25 | 750 | 16x25 | 750 | 16x30 | 780 | 18x40 | 900 | 18x35 | 800 | 18x40 | 730 |
| 100 | 12.5x25 16x25 | 600 960 | 16x30 | 1100 | 18x30 | 970 | | | | | | |
| 150 | 18x30 | 1050 | 18x35 | 1350 | 18x40 | 1200 | | | | | | |

(1) 外形尺寸 Case Size D×L(mm)

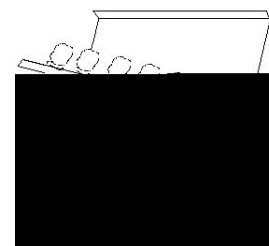
(2) 最大允许纹波电流 Max allowable ripple current (mA rms +130℃,100kHz)

◆ **Packaging**

*

Taped packaging quantity

| D(mm) | Qty. (Pcs) | L() 22mm | L() 25±2mm |
|-------|------------|------------|-------------|
| | | LxWxH(mm) | LxWxH(mm) |
| 5 | 2000 | 328x235x50 | 328x235x57 |
| 6.3 | 1500 | | |
| 8 | 1000 | | |
| 10 | 600 | | |
| 12.5 | 400 | | |
| 16 | 250 | | |
| 18 | 200 | | |



*

Bulk packaging qua

| D(mm) Diameter | L(mm) Length | Quant |
|-------------------|-----------------|-------|
| 4 | | |
| 5 | | |
| 5 | | |
| 6.3 | | |
| 6.3 | | |
| | | |
| | | |