

**85209 Series General Purpose**

(-40°C to +85°C) -10%, +100% or -10%, +50% Capacitance Tolerance

A-05-11-01

SIEMENS AKTIENGESELLSCHAFT 47E D

Aluminum electrolytic capacitor with etched aluminum electrodes, encapsulated in aluminum case with external insulation. They are radial leaded, special for vertical mounting.

**Ordering Code Example**

Example: 10 / 25 - 85209

Capacitance ( $\mu\text{F}$ )

Rated Voltage (V)

Order Number

85206

End sealed

**General Specification**

IEC 384-4 Type GP and DIN 41332, Sheet 1

**Climatic Category DIN**

GPF (-40 to +85°C/Humidity Category F)

According to DIN 40040.

**Climatic Category IEC**

40/085/56

**Life Test**

Conditions 2000h/ +85°C/UN or 500h/ +105°C/UN

Evaluation:

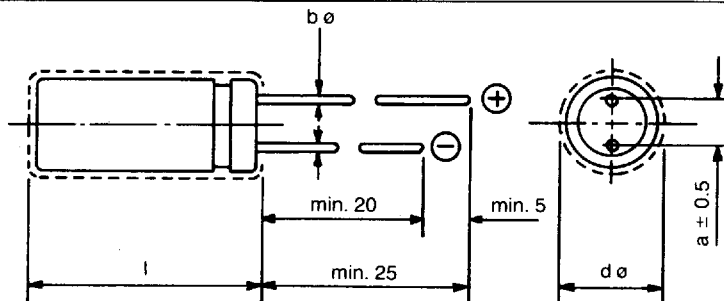
- $\Delta C/C$ :  $\pm 25\%$  of initially measured value.
- $+g\delta < 200\%$  of initially specified value.
- $I_R <$  than initially specified value.

**Storage Test**

Conditions 1000h/ +85°C/OV

Evaluation:

- $\Delta C/C$ :  $\pm 25\%$  of initially measured value.
- $+g\delta < 200\%$  of initially specified value.
- $I_R <$  than initially specified value.



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| Rated Voltage           |                  | 6.3 Vdc               | 10 Vdc | 16 Vdc | 25 Vdc | 40 Vdc | 63 Vdc | 100 Vdc | 160 Vdc | 250 Vdc |
|-------------------------|------------------|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|
| Rated Capacitance<br>μF |                  | Mechanical Dimensions |        |        |        |        |        |         |         |         |
| Tol.                    |                  |                       |        |        |        |        |        |         |         |         |
| 0.33                    | + 100%,<br>- 10% |                       |        |        |        |        |        | A       | B       | C       |
| 0.47                    |                  |                       |        |        |        |        |        | A       | B       | C       |
| 0.68                    |                  |                       |        |        |        |        |        | A       | B       | C       |
| 1.0                     |                  |                       |        |        |        |        |        | A       | B       | C       |
| 2.2                     |                  |                       |        |        |        |        | A      | B       | C       | D       |
| 3.3                     |                  |                       |        |        |        |        | A      | B       | C       | D       |
| 4.7                     |                  |                       |        |        |        | A      | B      | C       | D       | E       |
| 6.8                     |                  |                       |        |        |        | A      | B      | C       | D       | E       |
| 10                      |                  |                       |        |        | A      | B      | C      | D       | E       | F       |
| 22                      |                  |                       |        | A      | B      | C      | D      | E       | F       | G       |
| 33                      |                  |                       |        | A      | B      | C      | D      | E       | F       | G       |
| 47                      |                  | A                     |        | B      | C      | D      |        | E       | G       | I       |
| 68                      |                  | A                     |        | B      | C      | D      | E      | F       | G       | I       |
| 100                     |                  | B                     |        | C      | D      |        | E      | F       |         |         |
| 220                     |                  | C                     |        | D      | E      |        | F      | H       |         |         |
| 330                     |                  |                       | D      |        | E      | F      | G      | I       |         |         |
| 470                     |                  | D                     |        | E      | F      | G      | H      |         |         |         |
| 680                     |                  |                       | E      |        | F      | G      | I      | I       |         |         |
| 1,000                   |                  | E                     |        | F      | G      | H      |        |         |         |         |
| 2,200                   | + 50%,<br>- 10%  | F                     | G      | H      | I      |        |        |         |         |         |
| 3,300                   |                  | G                     | H      | I      |        |        |        |         |         |         |
| 4,700                   |                  | H                     | I      |        |        |        |        |         |         |         |
| 6,800                   |                  | I                     |        |        |        |        |        |         |         |         |

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## SIEMENS AKTIENGESELLSCHAFT 47E D

| Size Code | Standard Sizes<br>D x L<br>inches<br>(mm) | Maximum Sizes<br>D <sub>max</sub> x L <sub>max</sub><br>(with insulation)<br>inches<br>(mm) | Lead Diameter<br>inches<br>(mm) | Lead Spacing<br>(a)<br>inches<br>(mm) |
|-----------|-------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------|
| A         | 0.197 x 0.433<br>(5.0 x 11.0)             | 0.217 x 0.472<br>(5.5 x 12.0)                                                               | 0.079<br>(2.0)                  | 0.020<br>(0.5)                        |
| B         | 0.248 x 0.433<br>(6.3 x 11.0)             | 0.268 x 0.472<br>(6.8 x 12.0)                                                               | 0.098<br>(2.5)                  | 0.020<br>(0.5)                        |
| C         | 0.315 x 0.492<br>(8.0 x 12.5)             | 0.335 x 0.531<br>(8.5 x 13.5)                                                               | 0.138<br>(3.5)                  | 0.020<br>(0.5)                        |
| D         | 0.394 x 0.492<br>(10.0 x 12.5)            | 0.413 x 0.531<br>(10.5 x 13.5)                                                              | 0.197<br>(5.0)                  | 0.024<br>(0.6)                        |
| E         | 0.394 x 0.787<br>(10.0 x 20.0)            | 0.413 x 0.827<br>(10.5 x 21.0)                                                              | 0.197<br>(5.0)                  | 0.024<br>(0.6)                        |
| F         | 0.492 x 0.984<br>(12.5 x 25.0)            | 0.512 x 1.024<br>(13.0 x 26.0)                                                              | 0.197<br>(5.0)                  | 0.024<br>(0.6)                        |
| G         | 0.630 x 0.984<br>(16.0 x 25.0)            | 0.650 x 1.024<br>(16.5 x 26.0)                                                              | 0.295<br>(7.5)                  | 0.031<br>(0.8)                        |
| H         | 0.630 x 1.240<br>(16.0 x 31.5)            | 0.650 x 1.280<br>(16.5 x 32.5)                                                              | 0.295<br>(7.5)                  | 0.031<br>(0.8)                        |
| I         | 0.709 x 1.240<br>(18.0 x 31.5)            | 0.728 x 1.280<br>(18.5 x 32.5)                                                              | 0.295<br>(7.5)                  | 0.031<br>(0.8)                        |
| J         | 0.709 x 1.378<br>(18.0 x 35.0)            | 0.728 x 1.417<br>(18.5 x 36.0)                                                              | 0.295<br>(7.5)                  | 0.031<br>(0.8)                        |