

**8X049 Series General Purpose**(-40°C to +85°C)  $\pm 20\%$  Capacitance Tolerance

Electrolytic capacitor with etched electrodes encapsulated in a tubular aluminum can with external insulation.

This series has been developed with a wide range of high C.V. density units which is available in axial leaded where negative pole is connected on the can.

**Ordering Code Example**

Example: 1000 / 10 - 8X049

Rated

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

Rated Voltage (V dc)

Code

8X046

End sealed

**General Specifications**

IEC 384-4, Type GP &amp; DIN 41332, page 1

**Climatic Category**

(in accordance with DIN 40040)

GPF (-40 at +85°C/humidity category F)

**IEC**

40/085/56

**Life Test**

1000 h/ +85°C/UN

Criteria:

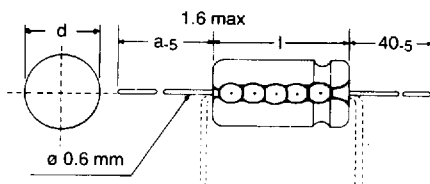
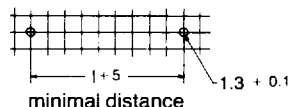
 $\Delta C/C \pm 25\%$  of value initially measured $T_{gd} < 200\%$  of value initially specified $I_L < \text{than the value initially specified}$ **Storage Test**

1000 h/ -85°C/OV

Criteria:

 $\Delta C/C \pm 25\%$  of value initially measured $T_{gd} < 200\%$  of value initially specified $I_L < \text{than the value initially specified}$ 

The measurements shall be performed after application of rated voltage to the capacitor a series limiting resistor (appr. 1000 $\Omega$ ) for 30 minutes. Then the capacitor must be stored for 24 to 48 hours at room temperature.

 $\phi \leq 5.8 \text{ mm}$ 

## 8X049 Series General Purpose

(-40°C to +85°C) ±20% Capacitance Tolerance

A-05-11-01

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) | Cathode Lead Length<br>(a)<br>Inches<br>(mm) |
|-----------|-------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------|
| L         | 0.177 x 0.433<br>(4.5 x 11)               | 0.193 x 0.492<br>(4.9 x 12.5)                                                               | 0.024<br>(0.6)                  | 1.575<br>(40)                                |
| M         | 0.228 x 0.433<br>(5.8 x 11)               | 0.244 x 0.492<br>(6.2 x 12.5)                                                               | 0.024<br>(0.6)                  | 1.575<br>(40)                                |
| N         | 0.256 x 0.689<br>(6.5 x 17.5)             | 0.276 x 0.709<br>(7.0 x 18.0)                                                               | 0.024<br>(0.6)                  | 1.575<br>(40)                                |
| O         | 0.335 x 0.689<br>(8.5 x 17.5)             | 0.354 x 0.709<br>(9.0 x 18.0)                                                               | 0.024<br>(0.6)                  | 1.575<br>(40)                                |
| P         | 0.394 x 0.984<br>(10 x 25)                | 0.413 x 1.00<br>(10.5 x 25.4)                                                               | 0.024<br>(0.6)                  | 1.969<br>(50)                                |
| Q         | 0.472 x 1.181<br>(12 x 30)                | 0.492 x 1.20<br>(12.5 x 30.5)                                                               | 0.031<br>(0.8)                  | 2.165<br>(55)                                |
| R         | 0.551 x 1.181<br>(14 x 30)                | 0.571 x 1.20<br>(14.5 x 30.5)                                                               | 0.031<br>(0.8)                  | 2.165<br>(55)                                |
| S         | 0.630 x 1.181<br>(16 x 30)                | 0.650 x 1.20<br>(16.5 x 30.5)                                                               | 0.031<br>(0.8)                  | 2.165<br>(55)                                |
| T         | 0.709 x 1.378<br>(18 x 35)                | 0.728 x 1.40<br>(18.5 x 35.5)                                                               | 0.031<br>(0.8)                  | 2.165<br>(55)                                |
| U         | 0.709 x 1.575<br>(18 x 40)                | 0.728 x 1.59<br>(18.5 x 40.5)                                                               | 0.031<br>(0.8)                  | 2.559<br>(65)                                |
| V         | 0.787 x 1.575<br>(20 x 40)                | 0.807 x 1.59<br>(20.5 x 40.5)                                                               | 0.031<br>(0.8)                  | 2.559<br>(65)                                |
| W         | 0.984 x 1.575<br>(25 x 40)                | 1.00 x 1.59<br>(25.4 x 40.5)                                                                | 0.031<br>(0.8)                  | 2.559<br>(65)                                |

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A-05-11-01

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SIEMENS AKTIENGESELLSCHAFT 47E D

| Rated Voltage     |      | 6.3 Vdc               | 10 Vdc | 16 Vdc | 25 Vdc | 40 Vdc | 50 Vdc | 63 Vdc | 100 Vdc | 160 Vdc | 250 Vdc | 350 Vdc |
|-------------------|------|-----------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| Rated Capacitance |      | Mechanical Dimensions |        |        |        |        |        |        |         |         |         |         |
| μF                | Tol. |                       |        |        |        |        |        |        |         |         |         |         |
| 0.1               | ±20% |                       |        |        |        |        |        |        | L       |         |         |         |
| 0.15              |      |                       |        |        |        |        |        |        | L       |         |         |         |
| 0.22              |      |                       |        |        |        |        |        |        | L       |         |         |         |
| 0.33              |      |                       |        |        |        |        |        |        | L       |         |         |         |
| 0.47              |      |                       |        |        |        |        |        |        | L       |         |         | N       |
| 0.68              |      |                       |        |        |        |        |        |        | L       |         |         | N       |
| 1.                |      |                       |        |        |        |        |        |        | L       |         | N       | O       |
| 1.5               |      |                       |        |        |        |        |        | L      | M       |         | N       | O       |
| 2.2               |      |                       |        |        |        |        | L      | L      | M       | N       | O       | O       |
| 3.3               |      |                       |        |        |        |        | L      | M      | N       |         | O       | P       |
| 4.7               |      |                       |        |        | L      | L      | M      | M      | N       |         | O       | P       |
| 6.8               |      |                       |        |        | L      | M      | M      | N      | N       | O       | P       | Q       |
| 10                |      |                       |        |        | L      | M      |        | N      | O       |         | P       | Q       |
| 15                |      |                       |        | L      | M      |        | N      |        |         | P       | P       | R       |
| 22                |      |                       |        | L      | M      | N      |        | O      | O       | P       | R       | R       |
| 33                |      | L                     |        | M      | N      |        | O      | O      | P       | Q       | R       | S       |
| 47                |      |                       | M      | M      | N      |        | O      | O      | P       | R       | S       | T       |
| 68                |      |                       | M      |        | N      |        |        | O      | P       | S       | T       |         |
| 100               |      | M                     | N      | N      | O      | O      |        | P      | Q       | S       | U       |         |
| 150               |      |                       |        | N      |        | O      | P      |        | Q       | U       |         |         |
| 220               |      | N                     |        | O      | O      | P      | Q      | Q      | S       | V       |         |         |
| 330               |      |                       | O      |        | P      | Q      |        | R      | T       |         |         |         |
| 470               |      | O                     |        | P      | P      | Q      | R      | S      | U       |         |         |         |
| 680               |      | O                     |        | P      | Q      | R      | S      | U      | V       |         |         |         |
| 1,000             |      |                       | P      | Q      | R      | S      | T      | U      | W       |         |         |         |
| 1,500             |      |                       | Q      | R      | S      | T      | U      | V      |         |         |         |         |
| 2,200             |      | Q                     | R      | S      | T      | U      | V      | W      |         |         |         |         |
| 3,300             |      |                       | S      | T      | U      |        |        |        |         |         |         |         |
| 4,700             |      | S                     | T      | U      | W      |        |        |        |         |         |         |         |
| 6,800             |      | T                     | U      | V      |        |        |        |        |         |         |         |         |
| 10,000            |      | U                     | V      |        |        |        |        |        |         |         |         |         |

Series **80049** **81049** **82049**