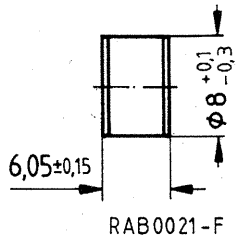


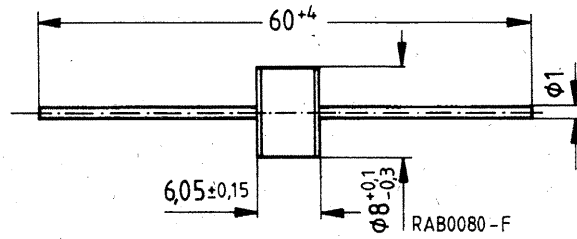
# Surge Arresters

## Metal-ceramic $\varnothing 8 \times 6$ 20 kA/20 A

A80-



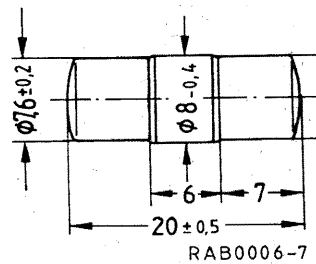
A81-



| Type                       | $V_{sdcN}$<br>V | Ordering code | Min.<br>qty. | Max.<br>qty. | Price each     |      |       |       |        |
|----------------------------|-----------------|---------------|--------------|--------------|----------------|------|-------|-------|--------|
|                            |                 |               |              |              | Min.<br>qty. + | 50 + | 100 + | 500 + | 1000 + |
| A80-C90X <sup>2)</sup>     | 90              | Q69-X141      | 30           | 2000         |                |      |       |       |        |
| A81-C90X <sup>1)</sup>     | 90              | Q69-X138      | 30           | 2000         |                |      |       |       |        |
| A80-A230X <sup>2) 3)</sup> | 230             | Q69-X224      | 30           | 1000         |                |      |       |       |        |
| A81-A230X <sup>1)</sup>    | 230             | Q69-X225      | 30           | 1000         |                |      |       |       |        |
| A81-A350X <sup>1)</sup>    | 350             | Q69-X238      | 30           | 1000         |                |      |       |       |        |

## Metal-ceramic $\varnothing 8 \times 20$ 20 kA/20 A

A83-



| Type                    | $V_{sdcN}$<br>V | Ordering code | Min.<br>qty. | Max.<br>qty. | Price each     |      |       |       |        |
|-------------------------|-----------------|---------------|--------------|--------------|----------------|------|-------|-------|--------|
|                         |                 |               |              |              | Min.<br>qty. + | 50 + | 100 + | 500 + | 1000 + |
| A83-C90                 | 90              | Q69-X144      | 30           | 1000         |                |      |       |       |        |
| A83-A230X <sup>4)</sup> | 230             | Q69-X142      | 30           | 1000         |                |      |       |       |        |

1) Also available on tape; PU for taped version: 500 pc.

2) Matching holder: A4-A1

3) Corresponds to version H of the German Federal Postal Administration Telekom

4) Corresponds to version F of the German Federal Postal Administration Telekom

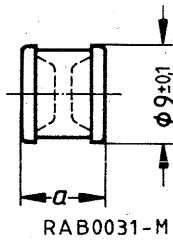
Surge arresters with other dc spark-over voltage ratings upon request.

# Surge Arresters

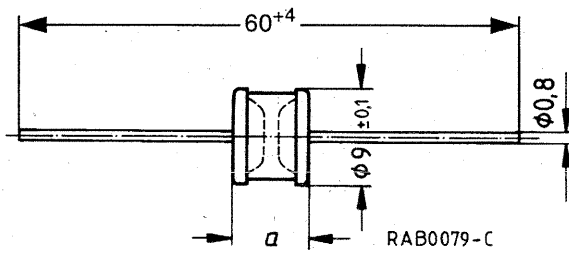
**Surge arresters**  
for overvoltage protection in telecom systems  
and in measuring and control equipment

**Standard button**  
**5 kA/5 A**

A1-,



B1-, B2-



## Glass insulator

| Type                    | $V_{sdCN}$ | Dim.<br>$a_{max}$<br>mm | Ordering code | Min.<br>qty. | Max.<br>qty. | Price each     |      |       |       |        |
|-------------------------|------------|-------------------------|---------------|--------------|--------------|----------------|------|-------|-------|--------|
|                         | V          |                         |               |              |              | Min.<br>qty. + | 50 + | 100 + | 500 + | 1000 + |
| A1-C90/20 <sup>2)</sup> | 90         | 7,3                     | Q69-X101      | 30           | 1000         |                |      |       |       |        |
| B1-C90/20 <sup>1)</sup> | 90         | 7,3                     | Q69-X184      | 30           | 2000         |                |      |       |       |        |
| A1-C150 <sup>2)</sup>   | 150        | 7,3                     | Q69-X106      | 30           | 1000         |                |      |       |       |        |
| B1-C150 <sup>1)</sup>   | 150        | 7,3                     | Q69-X198      | 30           | 1000         |                |      |       |       |        |
| A1-A230 <sup>2)</sup>   | 230        | 6,25                    | Q69-X102      | 30           | 1000         |                |      |       |       |        |
| B1-A230 <sup>1)</sup>   | 230        | 6,25                    | Q69-X185      | 30           | 1000         |                |      |       |       |        |
| B1-A350 <sup>1)</sup>   | 350        | 6,3                     | Q69-X186      | 30           | 2000         |                |      |       |       |        |
| B2-B600 <sup>1)</sup>   | 600        | 6,8                     | Q69-X154      | 30           | 1000         |                |      |       |       |        |

1) Also available on tape; PU for taped version: 500 pc.  
2) Matching holders: A1-A1, A1-A10, A1-A20, A1-A30

Surge arresters with other dc spark-over voltage ratings upon request.