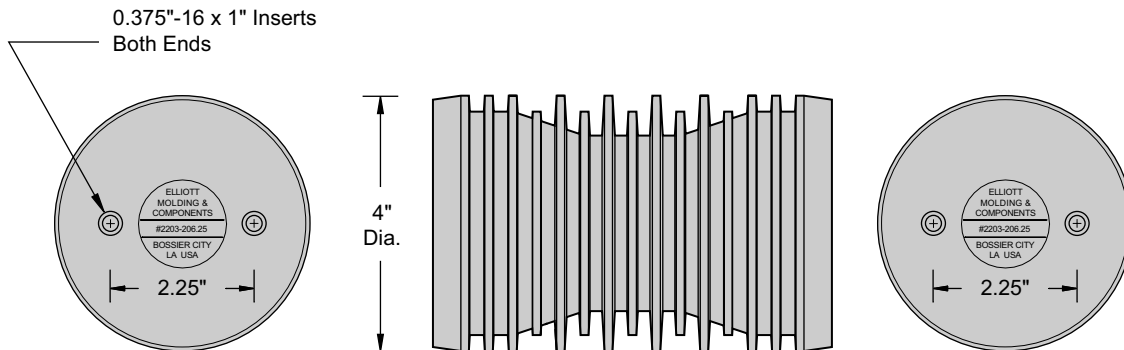




# Apparatus Insulators

Indoor - Outdoor  
Double Bolt Series 0.375" - 16 Inserts

Descriptive  
Bulletin  
**2203-001**  
Page 1 2008



### ELRIM Cycloaliphatic Epoxy Provides:

- Nontracking, self-scouring, nonweathering performance
- Superior dielectric strength, dielectric loss and power factor
- Choice of shapes allows design innovation
- Mechanical and thermal toughness
- Shatter-free arc flashover performance
- Oil resistant

### Elliott Design Provides:

- Cast-in-place inserts without metal end caps
- Contamination resistant Elliott square-edge skirts
- Generous dry arcing (strike) distance
- Increased creep distance to resist contamination
- Thermal cycling withstand from +200° F to -200° F
- High strength - field-proven performance
- Experience with cycloaliphatic epoxy since 1975

Double bolt series apparatus insulators provide bolt locations spaced to accept S&C live parts and may be used to construct fuse mountings and other apparatus that would otherwise require S&C insulators. These insulators may be mounted in any position. The unique Elliott square-edge skirt design provides unusually high performance in contaminated conditions - wet or dry. High cantilever strength and the other superior qualities of cycloaliphatic epoxy make this insulator a high-performance component.

### Ratings and Dimensions of Apparatus Insulators

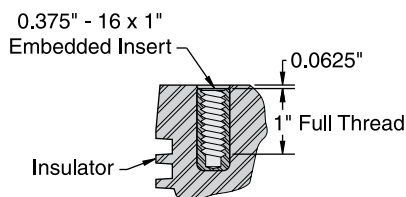
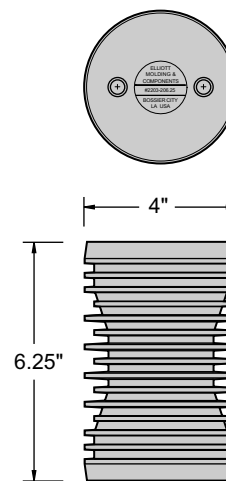
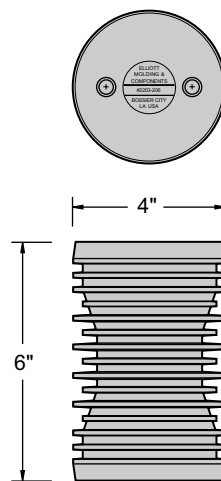
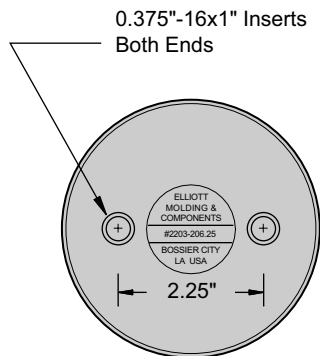
| Catalog Number | S&C Replacement | Nominal Voltage kV | Withstand Test Voltage Kilovolts |               |              | Height Inches | Minimum Leakage Inches | Minimum Strike Inches |
|----------------|-----------------|--------------------|----------------------------------|---------------|--------------|---------------|------------------------|-----------------------|
|                |                 |                    | Impulse 1.2 x 50                 | One Min. Dry. | 10 Sec. Dew. |               |                        |                       |
| 2203-206       | --              | 15                 | 95                               | 50            | 30           | 6             | 14                     | 6                     |
| 2203-206.25    | --              | 15                 | 95                               | 50            | 30           | 6.25          | 14.375                 | 6.25                  |
| 2203-206.75    | --              | 15                 | 110                              | 50            | 30           | 6.75          | 14.875                 | 6.75                  |
| 2203-207.5     | --              | 25                 | 125                              | 60            | 40           | 7.5           | 15.5                   | 7.5                   |
| 2203-208.5     | --              | 25                 | 125                              | 60            | 40           | 8.5           | 16.5                   | 8.5                   |
| 2203-210       | --              | 35                 | 150                              | 70            | 60           | 10            | 26.5                   | 10                    |
| 2203-212.5     | --              | 35                 | 200                              | 80            | 70           | 12.5          | 29                     | 12.5                  |



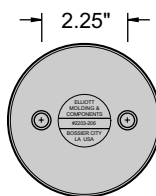
# Apparatus Insulators

Indoor - Outdoor  
Double Bolt Series 0.375" - 16 Inserts

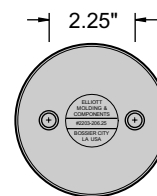
Descriptive  
Bulletin  
**2203-001**  
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**Insert Detail**



**#2203-206**

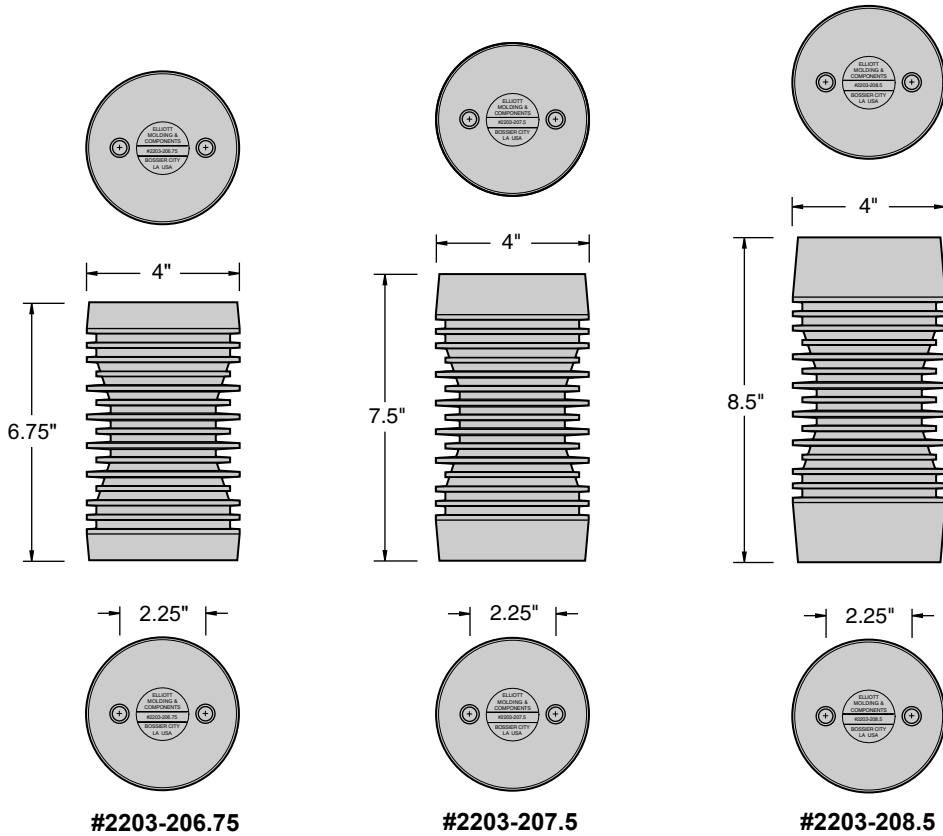


**#2203-206.25**

| Catalog Number                             | 2203-206    | 2203-206.25 |
|--|-------------|-------------|
| Electrical Rating, kV                      |             |             |
| Nominal Voltage                            | 15          | 15          |
| BIL  | 95          | 95          |
| A.C. Withstand - 1 Min. Dry                | 50          | 50          |
| A.C. Withstand - 10 Sec. Dew               | 30          | 30          |
| Leakage Distance, Inches                   | 14          | 14.375      |
| Dry Arcing Distance, Inches                | 6           | 6.25        |
| Mechanical-Strength Rating, Pounds         |             |             |
| Cantilever, Ultimate 2.5 inches above top* | 1,600       | 1,250       |
| Tensile, Pounds                            | 5,000       | 5,000       |
| Torsion, Inch-Pounds                       | 3,600       | 3,600       |
| Compression, Pounds                        | 20,000      | 20,000      |
| Insert Thread Size                         | 0.375" - 16 | 0.375" - 16 |
| Net Weight, Pounds (kg)                    | 3.8 (1.7)   | 4.3 (1.9)   |

\* To attain their rated cantilever strengths, insulators must be mounted on a flat surface that is at least as wide as the diameter of the base of the insulator. Furthermore, the mounting surface must be free of protrusions, such as lumps from galvanizing, to prevent cracking of the insulator when mounting bolts are tightened.

**Apparatus Insulators**  
Indoor - Outdoor  
Double Bolt Series 0.375" - 16 Inserts



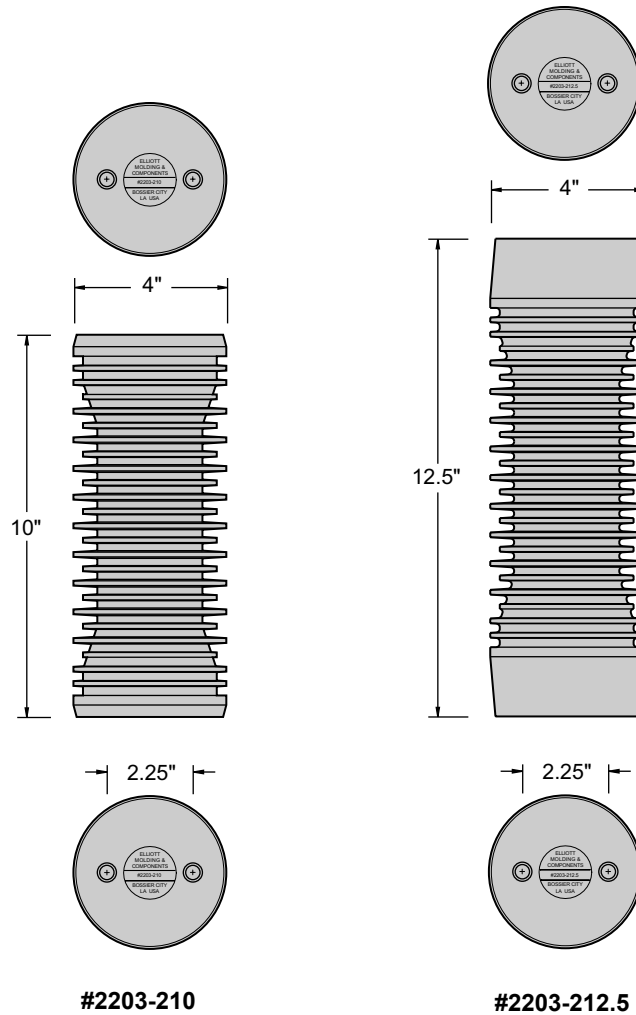
**#2203-206.75**

**#2203-207.5**

**#2203-208.5**

| Catalog Number                             | 2203-206.75 | 2203-207.5  | 2203-208.5  |
|--|-------------|-------------|-------------|
| Electrical Rating, kV                      |             |             |             |
| Nominal Voltage                            | 15          | 25          | 25          |
| BIL  | 110         | 125         | 125         |
| A.C. Withstand - 1 Min. Dry                | 50          | 60          | 60          |
| A.C. Withstand - 10 Sec. Dew               | 30          | 40          | 40          |
| Leakage Distance, Inches                   | 14.875      | 15.5        | 16.5        |
| Dry Arcing Distance, Inches                | 6.75        | 7.5         | 8.5         |
| Mechanical-Strength Rating, Pounds         |             |             |             |
| Cantilever, Ultimate 2.5 inches above top* | 1,200       | 1,250       | 1,200       |
| Tensile, Pounds                            | 5,000       | 5,000       | 5,000       |
| Torsion, Inch-Pounds                       | 3,600       | 3,600       | 3,600       |
| Compression, Pounds                        | 20,000      | 20,000      | 20,000      |
| Insert Thread Size (Top/Bottom)            | 0.375" - 16 | 0.375" - 16 | 0.375" - 16 |
| Net Weight, Pounds (kg)                    | 4.8 (2.2)   | 5.3 (2.4)   | 6 (2.7)     |

**Apparatus Insulators**  
Indoor - Outdoor  
Double Bolt Series 0.375" - 16 Inserts



#2203-210

#2203-212.5

| Catalog Number                             | 2203-210    | 2203-212.5  |
|--|-------------|-------------|
| Electrical Rating, kV                      |             |             |
| Nominal Voltage                            | 35          | 35          |
| BIL  | 150         | 200         |
| A.C. Withstand - 1 Min. Dry                | 70          | 80          |
| A.C. Withstand - 10 Sec. Dew               | 60          | 70          |
| Leakage Distance, Inches                   | 26.5        | 29          |
| Dry Arcing Distance, Inches                | 10          | 12.5        |
| Mechanical-Strength Rating, Pounds         |             |             |
| Cantilever, Ultimate 2.5 inches above top* | 850         | 650         |
| Tensile, Pounds                            | 5,000       | 5,000       |
| Torsion, Inch-Pounds                       | 3,600       | 3,600       |
| Compression, Pounds                        | 20,000      | 20,000      |
| Insert Thread Size                         | 0.375" - 16 | 0.375" - 16 |
| Net Weight, Pounds (kg)                    | 6.7 (3.0)   | 8.1 (3.6)   |

\* See note below the table on Page 2.