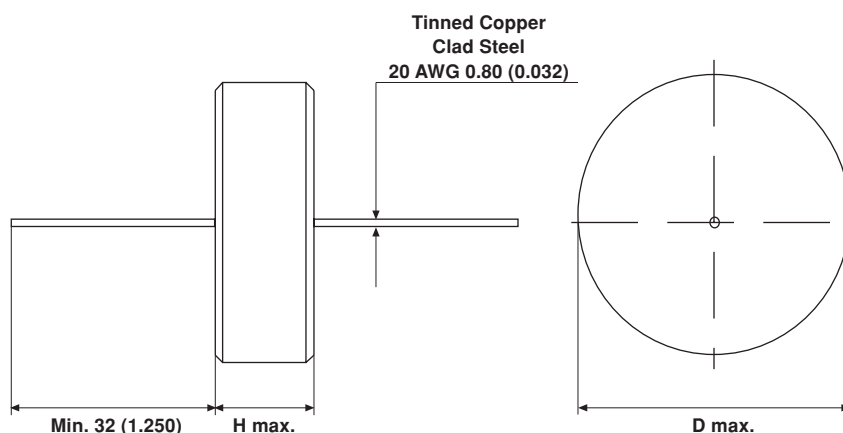


## High Voltage Capacitors with Axial Leads

10A... 10KV<sub>DC</sub>  
15A... 15KV<sub>DC</sub>  
20A... 20KV<sub>DC</sub>  
30A... 30KV<sub>DC</sub>



- Dimensions in millimeters (inches)

### DIELECTRIC STRENGTH

150% of rated voltage (in dielectric fluid), charging current limited to 50mA

### DISSIPATION FACTOR $\tan\delta$

N4700:  $\leq 2 \cdot 10^{-3}$  (1kHz)  
X7R, Z5U:  $\leq 20 \cdot 10^{-3}$  (1kHz)

### INSULATION RESISTANCE

MIN. 200,000 megohms, @180VDC or 1000  $\Omega$ F

### OPERATING TEMPERATURE RANGE

Up to + 125°C

### MATERIAL

Capacitor elements made from Class 1 or Class 3 ceramic in a molded case, high temperature epoxy construction  
Leads: Tinned copper clad steel

### MARKING

Capacitance value and tolerance,  
Rated DC voltage, T/C code,  
Production date code, CM mark

### ORDERING INFORMATION

20AZT68  
MODEL

20KV<sub>DC</sub>  
RATED  
VOLTAGE

680pF  
CAPACITANCE  
VALUE

$\pm 20\%$   
TOLERANCE

N4700  
CERAMIC



| MODEL         | CERAMIC | CAPACITANCE VALUES<br>[pF] | RATED<br>VOLTAGE<br>[KV <sub>DC</sub> ] | RATED<br>VOLTAGE<br>[KV <sub>RMS</sub> ] | D <sub>max.</sub> | H <sub>max.</sub> |
|---------------|---------|----------------------------|-----------------------------------------|------------------------------------------|-------------------|-------------------|
| <b>10A...</b> |         |                            |                                         |                                          |                   |                   |
| 10AZT47       | N4700   | 470                        | 10                                      | 3                                        | 21 (0.83)         | 13 (0.50)         |
| 10AZD10       | N4700   | 1000                       |                                         |                                          | 30 (1.18)         | 13 (0.50)         |
| 10AED15       | Z5U     | 1500                       |                                         |                                          | 21 (0.83)         | 13 (0.50)         |
| 10AZD20       | N4700   | 2000                       |                                         |                                          | 37 (1.45)         | 13 (0.50)         |
| 10AED22       | Z5U     | 2200                       |                                         |                                          | 21 (0.83)         | 13 (0.50)         |
| 10AED33       | Z5U     | 3300                       |                                         |                                          | 30 (1.18)         | 13 (0.50)         |
| 10ACD33       | X7R     | 3300                       |                                         |                                          | 30 (1.18)         | 15 (0.60)         |
| 10AED47       | Z5U     | 4700                       |                                         |                                          | 30 (1.18)         | 13 (0.50)         |
| 10ACD47       | X7R     | 4700                       |                                         |                                          | 37 (1.45)         | 15 (0.60)         |
| 10AED68       | Z5U     | 6800                       |                                         |                                          | 30 (1.18)         | 13 (0.50)         |
| 10AES10       | Z5U     | 10000                      |                                         |                                          | 37 (1.45)         | 13 (0.50)         |
| <b>15A...</b> |         |                            |                                         |                                          |                   |                   |
| 15AZT39       | N4700   | 390                        | 15                                      | 5                                        | 21 (0.83)         | 13 (0.50)         |
| 15AZT82       | N4700   | 820                        |                                         |                                          | 30 (1.18)         | 13 (0.50)         |
| 15AED10       | Z5U     | 1000                       |                                         |                                          | 21 (0.83)         | 13 (0.50)         |
| 15AED15       | Z5U     | 1500                       |                                         |                                          | 21 (0.83)         | 13 (0.50)         |
| 15ACD15       | X7R     | 1500                       |                                         |                                          | 30 (1.18)         | 15 (0.60)         |
| 15AZD15       | N4700   | 1500                       |                                         |                                          | 37 (1.45)         | 13 (0.50)         |
| 15AED22       | Z5U     | 2200                       |                                         |                                          | 30 (1.18)         | 13 (0.50)         |
| 15ACD22       | X7R     | 2200                       |                                         |                                          | 30 (1.18)         | 13 (0.50)         |
| 15AED33       | Z5U     | 3300                       |                                         |                                          | 30 (1.18)         | 13 (0.50)         |
| 15ACD33       | X7R     | 3300                       |                                         |                                          | 37 (1.45)         | 15 (0.60)         |
| 15ACD39       | X7R     | 3900                       |                                         |                                          | 37 (1.45)         | 15 (0.60)         |
| 15AED47       | Z5U     | 4700                       |                                         |                                          | 30 (1.18)         | 13 (0.50)         |
| 15AED68       | Z5U     | 6800                       |                                         |                                          | 37 (1.45)         | 13 (0.50)         |
| <b>20A...</b> |         |                            |                                         |                                          |                   |                   |
| 20AZT22       | N4700   | 220                        | 20                                      | 7                                        | 21 (0.83)         | 15 (0.60)         |
| 20AET68       | Z5U     | 680                        |                                         |                                          | 21 (0.83)         | 15 (0.60)         |
| 20AZT68       | N4700   | 680                        |                                         |                                          | 30 (1.18)         | 15 (0.60)         |
| 20AED10       | Z5U     | 1000                       |                                         |                                          | 21 (0.83)         | 15 (0.60)         |
| 20ACD10       | X7R     | 1000                       |                                         |                                          | 30 (1.18)         | 20 (0.80)         |
| 20AZD10       | N4700   | 1000                       |                                         |                                          | 37 (1.45)         | 15 (0.60)         |
| 20AED15       | Z5U     | 1500                       |                                         |                                          | 21 (0.83)         | 15 (0.60)         |
| 20ACD15       | X7R     | 1500                       |                                         |                                          | 30 (1.18)         | 20 (0.80)         |
| 20AED22       | Z5U     | 2200                       |                                         |                                          | 30 (1.18)         | 15 (0.60)         |
| 20ACD22       | X7R     | 2200                       |                                         |                                          | 37 (1.45)         | 20 (0.80)         |
| 20ACD25       | X7R     | 2500                       |                                         |                                          | 37 (1.45)         | 20 (0.80)         |
| 20ACD27       | X7R     | 2700                       |                                         |                                          | 37 (1.45)         | 20 (0.80)         |
| 20AED33       | Z5U     | 3300                       |                                         |                                          | 30 (1.18)         | 15 (0.60)         |
| 20AED47       | Z5U     | 4700                       |                                         |                                          | 37 (1.45)         | 15 (0.60)         |
| 20AED50       | Z5U     | 5000                       |                                         |                                          | 37 (1.45)         | 15 (0.60)         |
| <b>30A...</b> |         |                            |                                         |                                          |                   |                   |
| 30AZT18       | N4700   | 180                        | 30                                      | 10                                       | 21 (0.83)         | 20 (0.80)         |
| 30ACT33       | X7R     | 330                        |                                         |                                          | 21 (0.83)         | 24 (0.95)         |
| 30AZT47       | N4700   | 470                        |                                         |                                          | 30 (1.18)         | 20 (0.80)         |
| 30AET47       | Z5U     | 470                        |                                         |                                          | 21 (0.83)         | 20 (0.80)         |
| 30AZT68       | N4700   | 680                        |                                         |                                          | 37 (1.45)         | 20 (0.80)         |
| 30AET68       | Z5U     | 680                        |                                         |                                          | 21 (0.83)         | 20 (0.80)         |
| 30AET82       | Z5U     | 820                        |                                         |                                          | 21 (0.83)         | 20 (0.80)         |
| 30ACD10       | X7R     | 1000                       |                                         |                                          | 30 (1.18)         | 24 (0.95)         |
| 30AED10       | Z5U     | 1000                       |                                         |                                          | 30 (1.18)         | 20 (0.80)         |
| 30AED12       | Z5U     | 1200                       |                                         |                                          | 30 (1.18)         | 20 (0.80)         |
| 30ACD15       | X7R     | 1500                       |                                         |                                          | 37 (1.45)         | 24 (0.95)         |
| 30AED15       | Z5U     | 1500                       |                                         |                                          | 30 (1.18)         | 20 (0.80)         |
| 30AED18       | Z5U     | 1800                       |                                         |                                          | 37 (1.45)         | 20 (0.80)         |
| 30AED20       | Z5U     | 2000                       |                                         |                                          | 37 (1.45)         | 20 (0.80)         |
| 30AED22       | Z5U     | 2200                       |                                         |                                          | 37 (1.45)         | 20 (0.80)         |
| 30AED25       | Z5U     | 2500                       |                                         |                                          | 37 (1.45)         | 20 (0.80)         |
| 30AED30       | Z5U     | 3000                       |                                         |                                          | 37 (1.45)         | 20 (0.80)         |
| 30AED33       | Z5U     | 3300                       |                                         |                                          | 37 (1.45)         | 20 (0.80)         |

**CAPACITANCE TOLERANCES:** N4700, X7R Ceramic:  $\pm 20\%$ 

Z5U Ceramic: - 20 + 80%



### Disclaimer

All product specifications and data are subject to change without notice.

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