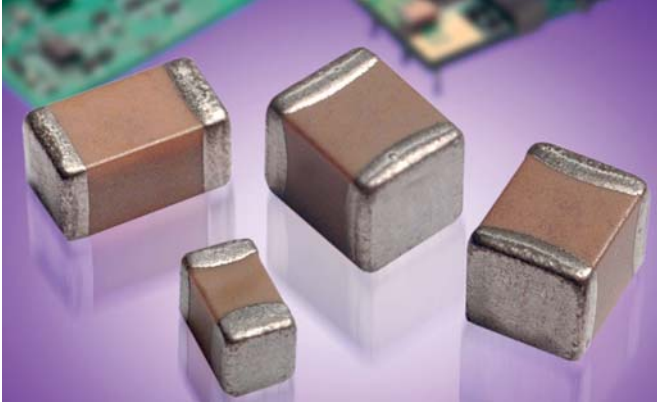


# X5R Dielectric

## General Specifications



### GENERAL DESCRIPTION

- General Purpose Dielectric for Ceramic Capacitors
- EIA Class II Dielectric
- Temperature variation of capacitance is within  $\pm 15\%$  from  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Well suited for decoupling and filtering applications
- Available in High Capacitance values (up to  $100\mu\text{F}$ )

### PART NUMBER (see page 2 for complete part number explanation)

**1210**

**Size**  
(L" x W")  
0101\*\*  
0201  
0402  
0603  
0805  
1206  
1210  
1812

**4**

**Voltage**  
4 = 4V  
6 = 6.3V  
Z = 10V  
Y = 16V  
3 = 25V  
D = 35V  
5 = 50V  
1 = 100V

**D**

**Dielectric**  
D = X5R

**107**

**Capacitance Code (In pF)**  
2 Sig. Digits +  
Number of  
Zeros

**M**

**Capacitance Tolerance**  
K =  $\pm 10\%$   
M =  $\pm 20\%$

**A**

**Failure Rate**  
A = N/A

**T**

**Terminations**  
T = Plated Ni  
and Sn

**2**

**Packaging**  
2 = 7" Reel  
4 = 13" Reel  
7 = Bulk Cass.  
9 = Bulk  
U = 4mm TR  
(01005)

**A**

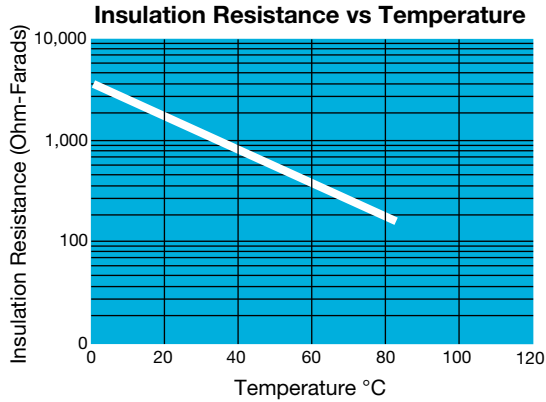
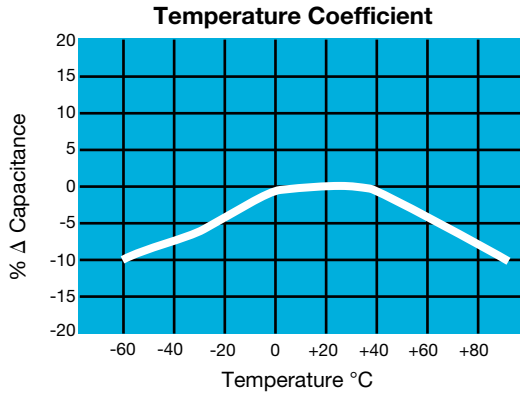
**Special Code**  
A = Std.



\*\*EIA 01005

NOTE: Contact factory for availability of Tolerance Options for Specific Part Numbers.  
Contact factory for non-specified capacitance values.

### TYPICAL ELECTRICAL CHARACTERISTICS



# X5R Dielectric



## Specifications and Test Methods

| Parameter/Test                        |                       | X5R Specification Limits   | Measuring Conditions   |   |
|---------------------------------------|-----------------------|--|--|---|
| <b>Operating Temperature Range</b>    |                       | -55°C to +85°C   | Temperature Cycle Chamber  |   |
| <b>Capacitance</b>                    |                       | Within specified tolerance   | Freq.: 1.0 kHz $\pm$ 10%<br>Voltage: 1.0Vrms $\pm$ .2V<br>For Cap > 10 $\mu$ F, 0.5Vrms @ 120Hz  |   |
| <b>Dissipation Factor</b>             |                       | $\leq$ 2.5% for $\geq$ 50V DC rating<br>$\leq$ 3.0% for 25V DC rating<br>$\leq$ 12.5% Max. for 16V DC rating and lower<br>Contact Factory for DF by PN |  |   |
| <b>Insulation Resistance</b>          |                       | 10,000M $\Omega$ or 500M $\Omega$ - $\mu$ F, whichever is less   | Charge device with rated voltage for 120 $\pm$ 5 secs @ room temp/humidity   |   |
| <b>Dielectric Strength</b>            |                       | No breakdown or visual defects   | Charge device with 300% of rated voltage for 1-5 seconds, w/charge and discharge current limited to 50 mA (max)  |   |
| <b>Resistance to Flexure Stresses</b> | Appearance            | No defects   | Deflection: 2mm<br>Test Time: 30 seconds<br>   |   |
|                                       | Capacitance Variation | $\leq$ $\pm$ 12%   |  |   |
|                                       | Dissipation Factor    | Meets Initial Values (As Above)  |  |   |
|                                       | Insulation Resistance | $\geq$ Initial Value x 0.3   |  |   |
| <b>Solderability</b>                  |                       | $\geq$ 95% of each terminal should be covered with fresh solder  | Dip device in eutectic solder at 230 $\pm$ 5°C for 5.0 $\pm$ 0.5 seconds   |   |
| <b>Resistance to Solder Heat</b>      | Appearance            | No defects, <25% leaching of either end terminal   | Dip device in eutectic solder at 260°C for 60 seconds. Store at room temperature for 24 $\pm$ 2 hours before measuring electrical properties.  |   |
|                                       | Capacitance Variation | $\leq$ $\pm$ 7.5%  |  |   |
|                                       | Dissipation Factor    | Meets Initial Values (As Above)  |  |   |
|                                       | Insulation Resistance | Meets Initial Values (As Above)  |  |   |
|                                       | Dielectric Strength   | Meets Initial Values (As Above)  |  |   |
| <b>Thermal Shock</b>                  | Appearance            | No visual defects  | Step 1: -55°C $\pm$ 2°   | 30 $\pm$ 3 minutes  |
|                                       | Capacitance Variation | $\leq$ $\pm$ 7.5%  | Step 2: Room Temp  | $\leq$ 3 minutes  |
|                                       | Dissipation Factor    | Meets Initial Values (As Above)  | Step 3: +85°C $\pm$ 2°   | 30 $\pm$ 3 minutes  |
|                                       | Insulation Resistance | Meets Initial Values (As Above)  | Step 4: Room Temp  | $\leq$ 3 minutes  |
|                                       | Dielectric Strength   | Meets Initial Values (As Above)  | Repeat for 5 cycles and measure after 24 $\pm$ 2 hours at room temperature   |   |
|                                       | <b>Load Life</b>      |  | Meets Initial Values (As Above)  | Charge device with 1.5X rated voltage in test chamber set at 85°C $\pm$ 2°C for 1000 hours (+48, -0). Note: Contact factory for *optional specification part numbers that are tested at < 1.5X rated voltage. |
| <b>Load Humidity</b>                  | Appearance            | No visual defects  | Remove from test chamber and stabilize at room temperature for 24 $\pm$ 2 hours before measuring.<br><br>Store in a test chamber set at 85°C $\pm$ 2°C/ 85% $\pm$ 5% relative humidity for 1000 hours (+48, -0) with rated voltage applied.<br><br>Remove from chamber and stabilize at room temperature and humidity for 24 $\pm$ 2 hours before measuring. |   |
|                                       | Capacitance Variation | $\leq$ $\pm$ 12.5%   |  |   |
|                                       | Dissipation Factor    | $\leq$ Initial Value x 2.0 (See Above)   |  |   |
|                                       | Insulation Resistance | $\geq$ Initial Value x 0.3 (See Above)   |  |   |
|                                       | Dielectric Strength   | Meets Initial Values (As Above)  |  |   |

# X5R Dielectric



## Capacitance Range

### PREFERRED SIZES ARE SHADED

| Case Size                   | 0101*                           |    | 0201                           |     |    |    | 0402                           |   |     |    |    | 0603                           |    |   |     |    | 0805                           |    |    |    |   |     |    |    |    |    |    |
|-----------------------------|---------------------------------|----|--------------------------------|-----|----|----|--------------------------------|---|-----|----|----|--------------------------------|----|---|-----|----|--------------------------------|----|----|----|---|-----|----|----|----|----|----|
| Soldering                   | Reflow Only                     |    | Reflow Only                    |     |    |    | Reflow/Wave                    |   |     |    |    | Reflow/Wave                    |    |   |     |    | Reflow/Wave                    |    |    |    |   |     |    |    |    |    |    |
| Packaging                   | Paper/Embossed                  |    | All Paper                      |     |    |    | All Paper                      |   |     |    |    | All Paper                      |    |   |     |    | Paper/Embossed                 |    |    |    |   |     |    |    |    |    |    |
| (L) Length<br>mm<br>(in.)   | 0.40 ± 0.02<br>(0.016 ± 0.0008) |    | 0.60 ± 0.03<br>(0.024 ± 0.001) |     |    |    | 1.00 ± 0.10<br>(0.040 ± 0.004) |   |     |    |    | 1.60 ± 0.15<br>(0.063 ± 0.006) |    |   |     |    | 2.01 ± 0.20<br>(0.079 ± 0.008) |    |    |    |   |     |    |    |    |    |    |
| (W) Width<br>mm<br>(in.)    | 0.20 ± 0.02<br>(0.008 ± 0.0008) |    | 0.30 ± 0.03<br>(0.011 ± 0.001) |     |    |    | 0.50 ± 0.10<br>(0.020 ± 0.004) |   |     |    |    | 0.81 ± 0.15<br>(0.032 ± 0.006) |    |   |     |    | 1.25 ± 0.20<br>(0.049 ± 0.008) |    |    |    |   |     |    |    |    |    |    |
| (t) Terminal<br>mm<br>(in.) | 0.10 ± 0.04<br>(0.004 ± 0.016)  |    | 0.15 ± 0.05<br>(0.006 ± 0.002) |     |    |    | 0.25 ± 0.15<br>(0.010 ± 0.006) |   |     |    |    | 0.35 ± 0.15<br>(0.014 ± 0.006) |    |   |     |    | 0.50 ± 0.25<br>(0.020 ± 0.010) |    |    |    |   |     |    |    |    |    |    |
| Voltage:                    | 6.3                             | 10 | 4                              | 6.3 | 10 | 16 | 25                             | 4 | 6.3 | 10 | 16 | 25                             | 50 | 4 | 6.3 | 10 | 16                             | 25 | 35 | 50 | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| Cap (pF) 100 101            |                                 | B  |                                |     |    |    | A                              |   |     |    |    |                                |    |   |     |    |                                |    |    |    |   |     |    |    |    |    |    |
| 150 151                     |                                 | B  |                                |     |    |    | A                              |   |     |    |    |                                |    |   |     |    |                                |    |    |    |   |     |    |    |    |    |    |
| 220 221                     |                                 | B  |                                |     |    |    | A                              |   |     |    |    |                                | C  |   |     |    |                                |    |    |    |   |     |    |    |    |    |    |
| 330 331                     |                                 | B  |                                |     |    |    | A                              |   |     |    |    |                                | C  |   |     |    |                                |    |    |    |   |     |    |    |    |    |    |
| 470 471                     |                                 | B  |                                |     |    |    | A                              |   |     |    |    |                                | C  |   |     |    |                                |    |    |    |   |     |    |    |    |    |    |
| 680 681                     |                                 | B  |                                |     |    |    | A                              |   |     |    |    |                                | C  |   |     |    |                                |    |    |    |   |     |    |    |    |    |    |
| 1000 102                    |                                 | B  |                                |     |    | A  | A                              |   |     |    |    |                                | C  |   |     |    |                                |    |    |    |   |     |    |    |    |    |    |
| 1500 152                    | B                               | B  |                                |     |    | A  | A                              |   |     |    |    |                                | C  |   |     |    |                                |    |    |    |   |     |    |    |    |    |    |
| 2200 222                    | B                               | B  |                                |     | A  | A  | A                              |   |     |    |    |                                | C  |   |     |    |                                |    |    |    |   |     |    |    |    |    |    |
| 3300 332                    | B                               | B  |                                |     | A  | A  | A                              |   |     |    |    |                                | C  |   |     |    |                                |    |    |    |   |     |    |    |    |    |    |
| 4700 472                    | B                               | B  |                                |     | A  | A  | A                              |   |     |    |    | C                              |    |   |     |    |                                |    |    |    |   |     |    |    |    | G  |    |
| 6800 682                    | B                               | B  |                                |     | A  | A  | A                              |   |     |    |    | C                              |    |   |     |    |                                |    |    |    |   |     |    |    |    |    | G  |
| Cap (µF) 0.01 103           | B                               | B  |                                |     | A  | A  | A                              |   |     |    |    | C                              |    |   |     |    |                                |    | G  | G  | G |     |    |    |    |    |    |
| 0.015 153                   | B                               |    |                                |     |    |    |                                |   |     |    |    | C                              |    |   |     |    |                                |    | G  | G  | G |     |    |    |    |    |    |
| 0.022 223                   | B                               |    |                                | A   |    |    |                                |   |     |    | C  | C                              |    |   |     |    |                                |    | G  | G  | G |     |    |    |    |    | N  |
| 0.033 333                   | B                               |    |                                |     |    |    |                                |   |     |    | C  |                                |    |   |     |    |                                |    | G  | G  | G |     |    |    |    |    | N  |
| 0.047 473                   | B                               |    |                                | A   |    |    |                                |   |     |    | C  | C                              |    |   |     |    |                                |    | G  | G  | G |     |    |    |    |    | N  |
| 0.068 683                   | B                               |    |                                |     |    |    |                                |   |     |    |    | C                              |    |   |     |    |                                |    | G  |    | G |     |    |    |    |    | N  |
| 0.1 104                     | B                               |    |                                | A   | A  |    |                                |   |     |    | C  | C                              | C  | C |     |    |                                |    | G  | G  | G |     |    |    |    | N  | N  |
| 0.15 154                    |                                 |    |                                |     |    |    |                                |   |     |    |    |                                |    |   |     |    |                                |    | G  |    |   |     |    |    |    | N  | N  |
| 0.22 224                    | B                               |    |                                | A   | A  | A  |                                |   |     |    | C  | C                              | C  |   |     |    |                                |    | G  | G  |   |     |    |    |    | N  | N  |
| 0.33 334                    |                                 |    |                                |     |    |    |                                |   |     |    |    |                                |    |   |     |    |                                |    |    | G  | G |     |    |    |    |    | N  |
| 0.47 474                    |                                 |    |                                | A   | A  |    |                                |   |     |    | C  | C                              | C  | C |     |    |                                |    |    | G  | J |     |    |    |    | N  | P  |
| 0.68 684                    |                                 |    |                                |     |    |    |                                |   |     |    |    |                                |    |   |     |    |                                |    |    | G  |   |     |    |    |    |    | N  |
| 1.0 105                     |                                 |    |                                | A   | A  |    |                                |   |     |    | C  | C                              | C  | C |     |    |                                |    | G  | G  | G | G   | J  | G  | G  |    | N  |
| 1.5 155                     |                                 |    |                                |     |    |    |                                |   |     |    |    |                                |    |   |     |    |                                |    |    |    |   |     |    |    |    |    | N  |
| 2.2 225                     |                                 |    |                                | A   | A  |    |                                |   |     |    | C  | C                              | C  |   |     |    |                                |    | G  | G  | J | J   | J  |    |    |    | N  |
| 3.3 335                     |                                 |    |                                |     |    |    |                                |   |     |    |    |                                |    |   |     |    |                                |    |    | J  | J | J   | J  |    |    |    | N  |
| 4.7 475                     |                                 |    |                                |     |    |    |                                |   |     |    | E  | E                              |    |   |     |    |                                |    |    | J  | J | J   | G  |    |    |    | N  |
| 10 106                      |                                 |    |                                |     |    |    |                                |   |     |    | E  | E                              |    |   |     |    |                                |    |    | K  | J | J   |    |    |    |    | N  |
| 22 226                      |                                 |    |                                |     |    |    |                                |   |     |    |    |                                |    |   |     |    |                                |    |    | K  | K |     |    |    |    |    | N  |
| 47 476                      |                                 |    |                                |     |    |    |                                |   |     |    |    |                                |    |   |     |    |                                |    |    |    |   |     |    |    |    |    | P  |
| 100 107                     |                                 |    |                                |     |    |    |                                |   |     |    |    |                                |    |   |     |    |                                |    |    |    |   |     |    |    |    |    | P  |
| Voltage:                    | 6.3                             | 10 | 4                              | 6.3 | 10 | 16 | 25                             | 4 | 6.3 | 10 | 16 | 25                             | 50 | 4 | 6.3 | 10 | 16                             | 25 | 35 | 50 | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| Case Size                   | 0101*                           |    | 0201                           |     |    |    | 0402                           |   |     |    |    | 0603                           |    |   |     |    | 0805                           |    |    |    |   |     |    |    |    |    |    |

| Letter         | A               | B               | C               | E               | G               | J               | K               | M               | N               | P               | Q               | X               | Y               | Z               |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Max. Thickness | 0.33<br>(0.013) | 0.22<br>(0.009) | 0.56<br>(0.022) | 0.71<br>(0.028) | 0.90<br>(0.035) | 0.94<br>(0.037) | 1.02<br>(0.040) | 1.27<br>(0.050) | 1.40<br>(0.055) | 1.52<br>(0.060) | 1.78<br>(0.070) | 2.29<br>(0.090) | 2.54<br>(0.100) | 2.79<br>(0.110) |
|                | PAPER           |                 |                 |                 |                 |                 | EMBOSSSED       |                 |                 |                 |                 |                 |                 |                 |

NOTE: Contact factory for non-specified capacitance values

\*EIA 01005



# X5R Dielectric

## Capacitance Range



### PREFERRED SIZES ARE SHADED

| Case Size                   | 1206                           |     |    |    |    |    |    |     | 1210                           |     |    |    |    |    |    |   | 1812                           |    |    |    |    |    |  |  |
|-----------------------------|--------------------------------|-----|----|----|----|----|----|-----|--------------------------------|-----|----|----|----|----|----|---|--------------------------------|----|----|----|----|----|--|--|
| Soldering                   | Reflow/Wave                    |     |    |    |    |    |    |     | Reflow Only                    |     |    |    |    |    |    |   | Reflow Only                    |    |    |    |    |    |  |  |
| Packaging                   | Paper/Embossed                 |     |    |    |    |    |    |     | Paper/Embossed                 |     |    |    |    |    |    |   | All Embossed                   |    |    |    |    |    |  |  |
| (L) Length<br>mm<br>(in.)   | 3.20 ± 0.20<br>(0.126 ± 0.008) |     |    |    |    |    |    |     | 3.20 ± 0.20<br>(0.126 ± 0.008) |     |    |    |    |    |    |   | 4.50 ± 0.30<br>(0.177 ± 0.012) |    |    |    |    |    |  |  |
| (W) Width<br>mm<br>(in.)    | 1.60 ± 0.20<br>(0.063 ± 0.008) |     |    |    |    |    |    |     | 2.50 ± 0.20<br>(0.098 ± 0.008) |     |    |    |    |    |    |   | 3.20 ± 0.20<br>(0.126 ± 0.008) |    |    |    |    |    |  |  |
| (t) Terminal<br>mm<br>(in.) | 0.50 ± 0.25<br>(0.020 ± 0.010) |     |    |    |    |    |    |     | 0.50 ± 0.25<br>(0.020 ± 0.010) |     |    |    |    |    |    |   | 0.61 ± 0.36<br>(0.024 ± 0.014) |    |    |    |    |    |  |  |
| Voltage:                    | 4                              | 6.3 | 10 | 16 | 25 | 35 | 50 | 100 | 4                              | 6.3 | 10 | 16 | 25 | 35 | 50 | 4 | 6.3                            | 10 | 16 | 25 | 35 | 50 |  |  |
| Cap (pF) 100 101            |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 150 151                     |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 220 221                     |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 330 331                     |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 470 471                     |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 680 681                     |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 1000 102                    |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 1500 152                    |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 2200 222                    |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 3300 332                    |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 4700 472                    |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 6800 682                    |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| Cap (µF) 0.01 103           |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 0.015 153                   |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 0.022 223                   |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 0.033 333                   |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 0.047 473                   |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 0.068 683                   |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 0.1 104                     |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 0.15 154                    |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 0.22 224                    |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 0.33 334                    |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 0.47 474                    |                                |     |    |    | Q  | Q  |    |     |                                |     |    |    |    | X  | X  |   |                                |    |    |    |    |    |  |  |
| 0.68 684                    |                                |     |    |    | Q  | Q  | Q  | Q   |                                |     |    |    | X  | X  | X  |   |                                |    |    |    |    |    |  |  |
| 1.0 105                     |                                |     |    |    | Q  | Q  | Q  | Q   |                                |     |    |    | X  | X  | X  |   |                                |    |    |    |    |    |  |  |
| 1.5 155                     |                                |     |    |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 2.2 225                     |                                |     | Q  | Q  | Q  | Q  | Q  | Q   |                                |     |    |    | X  | Z  | Z  |   |                                |    |    |    |    |    |  |  |
| 3.3 335                     |                                | Q   | Q  |    |    |    |    |     |                                |     |    |    |    |    |    |   |                                |    |    |    |    |    |  |  |
| 4.7 475                     | Q                              | Q   | Q  | Q  | Q  | Q  | Q  | Q   | X                              |     |    | Q  | Q  | Z  | Z  | Z |                                |    |    |    |    |    |  |  |
| 10 106                      | Q                              | Q   | Q  | Q  | Q  | Q  | Q  | X   |                                |     | X  | X  | Z  | Z  | Z  | Z |                                |    |    |    | Z  |    |  |  |
| 22 226                      | Q                              | Q   | Q  | Q  | Q  | Q  |    |     |                                | Z   | Z  | Z  | Z  | Z  |    |   |                                |    |    |    |    |    |  |  |
| 47 476                      | Q                              | Q   | Q  |    |    |    |    |     |                                | Z   | Z  | Z  | Z  |    |    |   |                                |    | Z  |    |    |    |  |  |
| 100 107                     | Q                              | Q   |    |    |    |    |    |     |                                | Z   | Z  | Z  | Z  |    |    |   |                                |    |    |    |    |    |  |  |
| Voltage:                    | 4                              | 6.3 | 10 | 16 | 25 | 35 | 50 | 100 | 4                              | 6.3 | 10 | 16 | 25 | 35 | 50 | 4 | 6.3                            | 10 | 16 | 25 | 35 | 50 |  |  |

| Letter         | A               | B               | C               | E               | G               | J               | K               | M               | N               | P               | Q               | X               | Y               | Z               |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Max. Thickness | 0.33<br>(0.013) | 0.22<br>(0.009) | 0.56<br>(0.022) | 0.71<br>(0.028) | 0.90<br>(0.035) | 0.94<br>(0.037) | 1.02<br>(0.040) | 1.27<br>(0.050) | 1.40<br>(0.055) | 1.52<br>(0.060) | 1.78<br>(0.070) | 2.29<br>(0.090) | 2.54<br>(0.100) | 2.79<br>(0.110) |
|                | PAPER           |                 |                 |                 |                 |                 | EMBOSSSED       |                 |                 |                 |                 |                 |                 |                 |

NOTE: Contact factory for non-specified capacitance values

\*EIA 01005



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