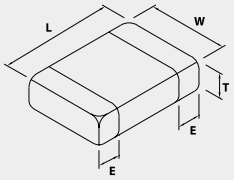
# X7R

## EIA/IEC Dielectric Code: X7R/2R1

| EIA/IEC Dielectric Code | | X7R/2R1 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size | | 0603 | | | 0805 | | | 1206 | | | 1210 | 1812 |
| (L)Length mm(in) | | 1.60±0.15(.063±.006) | | | 2.00±0.20(.080±.008) | | | 3.20±0.20(.126±.008) | | | 3.20±0.30(.126±.012) | 4.50±0.30(.177±.012) |
| (W)Width mm(in) | | 0.80±0.15(.032±.006) | | | 1.20±0.20(.050±.008) | | | 1.60±0.20(.063±.008) | | | 2.50±0.30(.100±.012) | 3.20±0.30(.126±.012) |
| (E)Termination mm(in) | | 0.40±0.20(.016±.008) | | | 0.50±0.20(.020±.008) | | | 0.50±0.20(.020±.008) | | | 0.50±0.20(.020±.008) | 0.64±0.38(.025±.015) |
| W.V.D.C. | | 16 | 25 | 50 | 16 | 25 | 50 | 16 | 25 | 50 | 50 | 50 |
| Cap | 100 | | | | | | | | | | | |
| (pF) | 120 | | | | | | | | | | | |
| | 150 | | | | | | | | | | | |
| | 180 | | | | | | | | | | | |
| | 220 | | | | | | | | | | | |
| | 270 | | | | | | | | | | | |
| | 330 | | | | | | | | | | | |
| | 390 | | | | | | | | | | | |
| | 470 | | | | | | | | | | | |
| | 560 | | | | | | | | | | | |
| | 680 | | | | | | | | | | | |
| | 820 | | | | | | | | | | | |
| | 1000 | | | | | | | | | | | |
| | 1200 | | | | | | | | | | | |
| | 1500 | | | | | | | | | | | |
| | 1800 | | | | | | | | | | | |
| | 2200 | | | | | | | | | | | |
| | 2700 | | | | | | | | | | | |
| | 3300 | | | | | | | | | | | |
| | 3900 | | | | | | | | | | | |
| | 4700 | | | | | | | | | | | |
| | 5600 | | | | | | | | | | | |
| | 6800 | | | | | | | | | | | |
| | 8200 | | | | | | | | | | | |
| Cap. | .010 | | | | | | | | | | | |
| (µF) | .012 | | | | | | | | | | | |
| | .015 | | | | | | | | | | | |
| | .018 | | | | | | | | | | | |
| | .022 | | | | | | | | | | | |
| | .027 | | | | | | | | | | | |
| | .033 | | | | | | | | | | | |
| | .039 | | | | | | | | | | | |
| | .047 | | | | | | | | | | | |
| | .056 | | | | | | | | | | | |
| | .068 | | | | | | | | | | | |
| | .082 | | | | | | | | | | | |
| | .10 | | | | | | | | | | | |
| | .12 | | | | | | | | | | | |
| | .15 | | | | | | | | | | | |
| | .18 | | | | | | | | | | | |
| | .22 | | | | | | | | | | | |
| | .27 | | | | | | | | | | | |
| | .33 | | | | | | | | | | | |
| | .39 | | | | | | | | | | | |
| | .47 | | | | | | | | | | | |
| | .68 | | | | | | | | | | | |




| Code / Thickness(mm) / Size | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 0603 | ** | 0.80±0.15 | ** | ** | ** | ** | ** |
| 0805 | 0.65±0.10 | 0.85±0.10 | 1.25±0.10 | ** | ** | ** | ** |
| 1206 | ** | 0.85±0.10 | 1.10±0.10 | ** | 1.60±0.10 | ** | ** |
| 1210 | ** | ** | 1.15±0.10 | 1.45±0.10 | 1.65±0.10 | ** | ** |
| 1808 | ** | ** | 1.15±0.10 | 1.45±0.10 | 1.65±0.10 | 2.00±0.10 | ** |
| 1812 | ** | ** | 1.15±0.10 | 1.45±0.10 | 1.65±0.10 | 2.00±0.10 | 2.50±0.10 |

NOTES
* Letters in shaded cells indicates thickness classification.
* Other capacitance values and voltages are available upon request.
* The thickness of chip capacitors might be changed due to the improvement of the product technology.

PDC