

- C0G (NP0), X7R, X5R, Z5U and Y5V Dielectrics
- 10, 16, 25, 50, 100 and 200 Volts
- Standard End Metalization: Tin-plate over nickel barrier
- Available Capacitance Tolerances:  $\pm 0.10$  pF;  $\pm 0.25$  pF;  $\pm 0.5$  pF;  $\pm 1\%$ ;  $\pm 2\%$ ;  $\pm 5\%$ ;  $\pm 10\%$ ;  $\pm 20\%$ ; and  $+80\%$ - $20\%$

| CAP.<br>PF | CAP<br>CODE | CAP.<br>TOL. | C1210*      |      |      | C1812* |      |      | C1825* |      |      | C2220 |      |      | C2225 |      |      |
|------------|-------------|--------------|-------------|------|------|--------|------|------|--------|------|------|-------|------|------|-------|------|------|
|            |             |              | 50V         | 100V | 200V | 50V    | 100V | 200V | 50V    | 100V | 200V | 50V   | 100V | 200V | 50V   | 100V | 200V |
| 10         | 100         | .D           | J,K,M       | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 12         | 120         | .D           | J,K,M       | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 15         | 150         | .D           | G,J,K,M     | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 18         | 180         | .D           | G,J,K,M     | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 22         | 220         | .D           | G,J,K,M     | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 27         | 270         |              | D,F,G,J,K,M | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 33         | 330         |              | D,F,G,J,K,M | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 39         | 390         |              | D,F,G,J,K,M | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 47         | 470         |              | D,F,G,J,K,M | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 56         | 560         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 68         | 680         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 82         | 820         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 100        | 101         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 120        | 121         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 150        | 151         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 180        | 181         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 220        | 221         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 270        | 271         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 330        | 331         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 390        | 391         |              | F,G,J,K,M   | FB   | FB   | FB     |      |      |        |      |      |       |      |      |       |      |      |
| 470        | 471         |              | F,G,J,K,M   | FB   | FB   | FB     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 560        | 561         |              | F,G,J,K,M   | FB   | FB   | FB     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 680        | 681         |              | F,G,J,K,M   | FB   | FB   | FB     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 820        | 821         |              | F,G,J,K,M   | FB   | FB   | FB     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 1000       | 102         |              | F,G,J,K,M   | FB   | FB   | FB     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 1200       | 122         |              | F,G,J,K,M   | FB   | FB   | FB     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 1500       | 152         |              | F,G,J,K,M   | FB   | FB   | FE     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 1800       | 182         |              | F,G,J,K,M   | FB   | FB   | FE     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 2200       | 222         |              | F,G,J,K,M   | FB   | FC   | FG     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 2700       | 272         |              | F,G,J,K,M   | FB   | FC   | FG     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 3300       | 332         |              | F,G,J,K,M   | FB   | FF   | FF     | GB   | GB   | GB     |      |      |       |      |      |       |      |      |
| 3900       | 392         |              | F,G,J,K,M   | FB   | FF   | FF     | GB   | GB   | GB     | HB   | HB   | HB    |      |      |       |      |      |
| 4700       | 472         |              | F,G,J,K,M   | FF   | FF   | FF     | GB   | GB   | GD     | HB   | HB   | HB    |      |      |       |      |      |
| 5600       | 562         |              | F,G,J,K,M   | FB   | FF   | FF     | GB   | GB   | GF     | HB   | HB   | HB    |      |      |       |      |      |
| 6800       | 682         |              | F,G,J,K,M   | FB   | FG   | FG     | GB   | GB   | GJ     | HB   | HB   | HB    |      |      |       |      |      |
| 8200       | 822         |              | F,G,J,K,M   | FC   | FF   | FF     | GB   | GB   |        | HB   | HB   | HB    |      |      |       |      |      |
| 10,000     | 103         |              | F,G,J,K,M   | FF   | FF   | FF     | GB   | GB   | GD     | HE   | HB   | HB    |      |      |       |      |      |
| 12,000     | 123         |              | F,G,J,K,M   | FF   | FF   | FF     | HB   | HB   |        | HE   | JB   | JB    |      |      |       |      |      |
| 15,000     | 153         |              | F,G,J,K,M   |      |      |        | HB   | HB   |        |      | JB   | JB    |      |      |       |      |      |
| 18,000     | 183         |              | F,G,J,K,M   |      |      |        | HB   | HB   |        |      | JB   | JB    |      |      |       |      |      |

| XTR CAPACITANCE RANGE - 0.402, 0.603, 0.805, 1.200 |             |              |        |     |     |     |     |        |     |     |     |     |      |      |        |     |     |     |     |      |      |        |     |     |     |     |      |      |  |
|----------------------------------------------------|-------------|--------------|--------|-----|-----|-----|-----|--------|-----|-----|-----|-----|------|------|--------|-----|-----|-----|-----|------|------|--------|-----|-----|-----|-----|------|------|--|
| CAP<br>PF                                          | CAP<br>CODE | CAP.<br>TOL. | C0402* |     |     |     |     | C0603* |     |     |     |     |      |      | C0805* |     |     |     |     |      |      | C1206* |     |     |     |     |      |      |  |
|                                                    |             |              | 6.3V   | 10V | 16V | 25V | 50V | 6.3V   | 10V | 16V | 25V | 50V | 100V | 200V | 6.3V   | 10V | 16V | 25V | 50V | 100V | 200V | 6.3V   | 10V | 16V | 25V | 50V | 100V | 200V |  |
| 150                                                | 151         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 180                                                | 181         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 220                                                | 221         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 270                                                | 271         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 330                                                | 331         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 390                                                | 391         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 470                                                | 471         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 560                                                | 561         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 680                                                | 681         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 820                                                | 821         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 1000                                               | 102         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 1200                                               | 122         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 1500                                               | 152         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 1800                                               | 182         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 2200                                               | 222         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 2700                                               | 272         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 3300                                               | 332         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 3900                                               | 392         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 4700                                               | 472         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 5600                                               | 562         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   | CB     | CB  | CB  | CB  | CB  | CB   | CB   |  |
| 6800                                               | 682         | K,M,J        | BB     | BB  | BB  | BB  | BB  | CB</   |     |     |     |     |      |      |        |     |     |     |     |      |      |        |     |     |     |     |      |      |  |

**See page 54 for Thickness Code Reference Chart.**

**X7R CAPACITANCE RANGE – 1210, 1812, 1825, 2220, 2225**

| CAP.<br>PF | CAP<br>CODE | CAP.<br>TOL. | C1210* |     |     |     |     |      |      | C1812* |      |      | C1825* |      |      | C2220 |      |      | C2225 |      |      |
|------------|-------------|--------------|--------|-----|-----|-----|-----|------|------|--------|------|------|--------|------|------|-------|------|------|-------|------|------|
|            |             |              | 6.3V   | 10V | 16V | 25V | 50V | 100V | 200V | 50V    | 100V | 200V | 50V    | 100V | 200V | 50V   | 100V | 200V | 50V   | 100V | 200V |
| 2200       | 222         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   |        |      |      |        |      |      |       |      |      |       |      |      |
| 2700       | 272         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   |        |      |      |        |      |      |       |      |      |       |      |      |
| 3300       | 332         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   |        |      |      |        |      |      |       |      |      |       |      |      |
| 3900       | 392         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   |        |      |      |        |      |      |       |      |      |       |      |      |
| 4700       | 472         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   |        |      |      |        |      |      |       |      |      |       |      |      |
| 5600       | 562         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   |        |      |      |        |      |      |       |      |      |       |      |      |
| 6800       | 682         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   | GB     | GB   | GB   |        |      |      |       |      |      |       |      |      |
| 8200       | 822         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   | GB     | GB   | GB   |        |      |      |       |      |      |       |      |      |
| 10,000     | 103         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   | GB     | GB   | GB   |        |      |      |       |      |      |       |      |      |
| 12,000     | 123         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   | GB     | GB   | GB   |        |      |      |       |      |      |       |      |      |
| 15,000     | 153         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   | GB     | GB   | GB   |        |      |      |       |      |      |       |      |      |
| 18,000     | 183         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   | GB     | GB   | GB   |        |      |      |       |      |      |       |      |      |
| 22,000     | 223         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   | GB     | GB   | GB   | HB     | HB   | HB   |       |      |      |       |      |      |
| 27,000     | 273         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   | GB     | GB   | GB   | HB     | HB   | HB   |       |      |      |       |      |      |
| 33,000     | 333         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   | GB     | GB   | GB   | HB     | HB   | HB   |       |      |      |       |      |      |
| 39,000     | 393         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FB   | GB     | GB   | GB   | HB     | HB   | HB   |       |      |      |       |      |      |
| 47,000     | 473         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FC   | GB     | GB   | GB   | HB     | HB   | HB   |       |      |      | KC    | KC   | KC   |
| 56,000     | 563         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FC   | GB     | GB   | GB   | HB     | HB   | HB   |       |      |      | KC    | KC   | KC   |
| 68,000     | 683         | K,M,J        | FB     | FB  | FB  | FB  | FB  | FB   | FC   | GB     | GB   | GB   | HB     | HB   | HB   |       |      |      | KC    | KC   | KC   |
| 82,000     | 823         | K,M,J        | FB     | FB  | FB  | FB  | FC  | FC   | FF   | GB     | GB   | GB   | HB     | HB   | HB   |       |      |      | KC    | KC   | KC   |
| 100,000    | 104         | K,M,J        | FB     | FB  | FB  | FB  | FD  | FD   | FG   | GB     | GB   | GB   | HB     | HB   | HB   |       |      |      | KC    | KC   | KC   |
| 120,000    | 124         | K,M,J        | FB     | FB  | FB  | FB  | FD  | FD   |      | GB     | GB   | GB   | HB     | HB   | HB   |       |      |      | KC    | KC   | KC   |
| 150,000    | 154         | K,M,J        | FC     | FC  | FC  | FC  | FD  | FD   |      | GB     | GB   | GE   | HB     | HB   | HB   |       |      |      | KC    | KC   | KC   |
| 180,000    | 184         | K,M,J        | FC     | FC  | FC  | FC  | FD  | FD   |      | GB     | GB   | GG   | HB     | HB   | HB   |       |      |      | KC    | KC   | KC   |
| 220,000    | 224         | K,M,J        | FC     | FC  | FC  | FC  | FD  | FD   |      | GB     | GB   |      | HB     | HB   | HB   |       |      |      | KC    | KC   | KC   |
| 270,000    | 274         | K,M,J        | FC     | FC  | FC  | FC# | FD# | FD#  |      | GB     | GH   |      | HB     | HB   | HB   | JC    | JC   | JC   | KB    | KC   | KC   |
| 330,000    | 334         | K,M,J        | FD     | FD  | FD  | FD# | FD# | FD#  |      | GB     | GH   |      | HB     | HB   | HB   | JC    | JC   | JC   | KB    | KC   | KC   |
| 390,000    | 394         | K,M,J        | FD     | FD  | FD  | FD# | FD# | FD#  |      | GB     |      |      | HB     | HB   | HD   | JC    | JC   | JC   | KB    | KC   | KC   |
| 470,000    | 474         | K,M,J        | FD     | FD  | FD  | FD# | FD# | FD#  |      | GB     |      |      | HB     | HB   |      | JC    | JC   | JC   | KB    | KC   | KD   |
| 560,000    | 564         | K,M,J        | FD     | FD  | FD  | FD# | FD# | FD#  |      | GC     |      |      | HB     | HD   |      | JC    | JC   | JC   | KB    | KC   |      |
| 680,000    | 684         | K,M,J        | FD     | FD  | FD  | FD# | FD# | FD#  |      | GC     |      |      | HB     | HD   |      | JC    | JD   |      | KB    | KC   |      |
| 820,000    | 824         | K,M,J        | FF     | FF  | FF  | FF# | FF# | FF#  |      | GE     |      |      | HB     |      |      | JC    | JF   |      | KB    | KC   |      |
| 1,000,000  | 105         | K,M,J        | FH     | FH  | FH  | FH  | FH# | FH#  |      | GE     |      |      | HB     |      |      | JC    |      |      | KB    | KD   |      |
| 1,200,000  | 125         | K,M,J        | FH     | FH  | FH  | FH  |     |      |      |        |      |      | HB     |      |      | JC    |      |      | KB    |      |      |
| 1,500,000  | 155         | K,M,J        | FH     | FH  | FH  | FH  |     |      |      |        |      |      | HB     |      |      | JC    |      |      | KC    |      |      |
| 1,800,000  | 185         | K,M,J        | FH     | FH  | FH  | FH  |     |      |      |        |      |      | HD     |      |      | JD    |      |      | KD    |      |      |
| 2,200,000  | 225         | K,M,J        | FJ     | FJ  | FJ  | FJ  |     |      |      |        |      |      | HF     |      |      | JF    |      |      | KD    |      |      |

\* Indicates EIA preferred chip sizes.

NOTE: For non-standard capacitance values or voltages, contact your local KEMET sales representative.

50 Volt Ceramic Chips can be used for 63 volt applications.

# Extended Range Values — Cap and DF measured @ 0.5 Vrms.

**X5R CAPACITANCE RANGE**

| CAP.<br>pF | CAP<br>CODE | CAP.<br>TOL. | C0402* |     | C0603* |     | C0805* |     | C1206* |     |     |     | C1210* |     |     |     |     |
|------------|-------------|--------------|--------|-----|--------|-----|--------|-----|--------|-----|-----|-----|--------|-----|-----|-----|-----|
|            |             |              | 6.3V   | 10V | 6.3V   | 10V | 6.3V   | 10V | 6.3V   | 10V | 16V | 25V | 6.3V   | 10V | 16V | 25V | 50V |
| 12,000     | 123         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 15,000     | 153         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 18,000     | 183         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 22,000     | 223         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 27,000     | 273         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 33,000     | 333         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 39,000     | 393         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 47,000     | 473         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 56,000     | 563         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 68,000     | 683         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 82,000     | 823         | K,M          | BB     | BB  |        |     |        |     |        |     |     |     |        |     |     |     |     |
| 100,000    | 104         | K,M          | BB     | BB  |        |     |        |     |        |     |     | EB  |        |     |     |     |     |
| 120,000    | 124         | K,M          |        |     |        |     |        |     |        |     |     | EC  |        |     |     |     |     |
| 150,000    | 154         | K,M          |        |     |        |     |        |     |        |     |     | EC  |        |     |     |     |     |
| 180,000    | 184         | K,M          |        |     |        |     |        |     |        |     |     | EC  |        |     |     |     |     |
| 220,000    | 224         | K,M          |        |     |        |     |        |     |        |     |     | EC  |        |     |     |     |     |
| 270,000    | 274         | K,M          |        |     |        |     |        |     |        |     |     | EB  |        |     |     |     |     |
| 330,000    | 334         | K,M          |        |     | CC     | CC  |        |     |        |     |     | EB  |        |     |     |     |     |
| 390,000    | 394         | K,M          |        |     | CC     | CC  |        |     |        |     |     | EB  |        |     |     |     |     |
| 470,000    | 474         | K,M          |        |     | CC     | CC  |        |     |        |     |     | EC  |        |     |     |     |     |
| 560,000    | 564         | K,M          |        |     | CC     | CC  |        |     |        |     |     | EE  |        |     |     |     |     |
| 680,000    | 684         | K,M          |        |     | CC     | CC  |        |     |        |     |     | EF  |        |     |     |     |     |
| 820,000    | 824         | K,M          |        |     | CC     | CC  |        |     |        |     |     | EF  |        |     |     |     |     |
| 1,000,000  | 105         | K,M          |        |     | CC     | CC  |        |     | DD     | DD  |     | EH  |        |     | FH+ | FH+ | FH+ |
| 1,200,000  | 125         | K,M          |        |     | CC     | CC  |        |     | DE     | DE  | EC  | EC  |        |     | FD+ | FD+ |     |
| 1,500,000  | 155         | K,M          |        |     | CC     | CC  |        |     | DE     | DE  | EC  | EC  |        |     | FD+ | FD+ |     |
| 1,800,000  | 185         | K,M          |        |     | CC     | CC  |        |     | DH     | DH  | EC  | EC  |        |     | FD+ | FD+ |     |
| 2,200,000  | 225         | K,M          |        |     | CC     | CC  |        |     | DH     | DH  | EE  | EE  |        |     | FG+ | FG+ |     |
| 2,700,000  | 275         | K,M          |        |     |        |     |        |     | DD     | DD  | EF  | EF  |        |     | FG+ | FG+ |     |
| 3,300,000  | 335         | K,M          |        |     |        |     |        |     | DE     | DE  | EH  | EH  |        |     | FH+ | FH+ |     |
| 4,700,000  | 475         | K,M          |        |     |        |     |        |     | DH     | DH  | EH  | EH  |        |     | FK+ | FK+ |     |
| 6,800,000  | 685         | K,M          |        |     |        |     |        |     | DH     | DH  | EH  | EH  |        |     | FJ+ | FJ+ |     |
| 8,200,000  | 825         | K,M          |        |     |        |     |        |     | DH     | DH  | EH  | EH  |        |     | FK+ | FK+ |     |
| 10,000,000 | 106         | K,M          |        |     |        |     |        |     | DH     | DH  | EH  | EH  |        |     | FK+ | FK+ |     |
| 12,000,000 | 126         | K,M          |        |     |        |     |        |     |        |     | EH  |     |        |     | FF+ | FJ+ |     |
| 15,000,000 | 156         | K,M          |        |     |        |     |        |     |        |     | EH  |     |        |     | FF+ | FJ+ |     |
| 18,000,000 | 186         | K,M          |        |     |        |     |        |     |        |     | EH  |     |        |     | FG+ | FK+ |     |
| 22,000,000 | 226         | K,M          |        |     |        |     |        |     |        |     | EH  |     |        |     | FG+ | FK+ |     |

NOTE: For non-standard capacitance values or voltages, contact your local KEMET sales representative.

+ Reflow only

**See page 54 for Thickness Code Reference Chart.**

**THICKNESS CODE REFERENCE CHART**  
**PACKAGING QTY BASED ON FINISHED CHIP THICKNESS SPECIFICATIONS**

| Thickness Code | Chip Size | Chip Thickness Range (mm) | Qty per Reel 7" Plastic | Qty per Reel 13" Plastic | Qty per Reel 7" Paper | Qty per Reel 13" Paper | Qty per Bulk Cassette |
|----------------|-----------|---------------------------|-------------------------|--------------------------|-----------------------|------------------------|-----------------------|
| AA             | 0201      | .30 ± .03                 | N/A                     | N/A                      | 15,000                | N/A                    | N/A                   |
| BB             | 0402      | .50 ± .05                 | N/A                     | N/A                      | 10,000                | 50,000                 | 50,000                |
| CB             | 0603      | .80 ± .07                 | N/A                     | N/A                      | 4,000                 | 10,000                 | 15,000                |
| CC             | 0603      | .80 ± .10                 | N/A                     | N/A                      | 4,000                 | 10,000                 | N/A                   |
| DB             | 0805      | .60 ± .10                 | N/A                     | N/A                      | N/A                   | N/A                    | 10,000                |
| DC             | 0805      | .78 ± .10                 | 4,000                   | 10,000                   | 4,000                 | 10,000                 | N/A                   |
| DD             | 0805      | .90 ± .10                 | 4,000                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| DE             | 0805      | 1.00 ± .10                | 2,500                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| DF             | 0805      | 1.10 ± .10                | 2,500                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| DG             | 0805      | 1.25 ± .15                | 2,500                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| DH             | 0805      | 1.25 ± .20                | 2,500                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| EB             | 1206      | .78 ± .10                 | 4,000                   | 10,000                   | 4,000                 | 10,000                 | N/A                   |
| EC             | 1206      | .90 ± .10                 | 4,000                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| ED             | 1206      | 1.00 ± .10                | 2,500                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| EE             | 1206      | 1.10 ± .10                | 2,500                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| EF             | 1206      | 1.20 ± .15                | 2,500                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| EG             | 1206      | 1.60 ± .15                | 2,000                   | 8,000                    | N/A                   | N/A                    | N/A                   |
| EH             | 1206      | 1.60 ± .20                | 2,000                   | 8,000                    | N/A                   | N/A                    | N/A                   |
| EJ             | 1206      | 1.70 ± .20                | 2,000                   | 8,000                    | N/A                   | N/A                    | N/A                   |
| FB             | 1210      | .78 ± .10                 | 4,000                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| FC             | 1210      | .90 ± .10                 | 4,000                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| FD             | 1210      | .95 ± .10                 | 4,000                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| FE             | 1210      | 1.00 ± .10                | 2,500                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| FF             | 1210      | 1.10 ± .10                | 2,500                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| FG             | 1210      | 1.25 ± .15                | 2,500                   | 10,000                   | N/A                   | N/A                    | N/A                   |
| FH             | 1210      | 1.55 ± .15                | 2,000                   | 8,000                    | N/A                   | N/A                    | N/A                   |
| FJ             | 1210      | 1.85 ± .15                | 2,000                   | 8,000                    | N/A                   | N/A                    | N/A                   |
| FK             | 1210      | 2.10 ± .20                | 2,000                   | 8,000                    | N/A                   | N/A                    | N/A                   |
| GB             | 1812      | 1.00 ± .10                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| GC             | 1812      | 1.10 ± .10                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| GD             | 1812      | 1.25 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| GE             | 1812      | 1.30 ± .10                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| GF             | 1812      | 1.50 ± .10                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| GG             | 1812      | 1.55 ± .10                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| GH             | 1812      | 1.40 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| GJ             | 1812      | 1.70 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| HB             | 1825      | 1.10 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| HD             | 1825      | 1.30 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| HE             | 1825      | 1.40 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| HF             | 1825      | 1.50 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| JB             | 2220      | 1.00 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| JC             | 2220      | 1.10 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| JD             | 2220      | 1.30 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| JE             | 2220      | 1.40 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| JF             | 2220      | 1.50 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| KB             | 2225      | 1.00 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| KC             | 2225      | 1.10 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| KD             | 2225      | 1.30 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |
| KE             | 2225      | 1.40 ± .15                | 1,000                   | 4,000                    | N/A                   | N/A                    | N/A                   |

This chart refers to ceramic chip thickness codes on pages 50-53.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.