Module 5a

Dielectric constant data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Temperature (0C)** | **Capacitance during heating (pF)** | **Dielectric constant during heating** | **Capacitance during cooling (pF)** | **Dielectric constant during cooling** |
| 29.1 | 638 | 1448.26 |  |  |
| 30 | 642 | 1457.34 |  |  |
| 35 | 636 | 1443.72 |  |  |
| 40 | 629 | 1427.83 |  |  |
| 45 | 623 | 1414.21 |  |  |
| 50 | 615 | 1396.05 | 625 | 1418.75 |
| 55 | 616 | 1398.32 | 627 | 1423.29 |
| 60 | 617 | 1400.59 | 630 | 1430.1 |
| 65 | 618 | 1402.86 | 635 | 1441.45 |
| 70 | 625 | 1418.75 | 641 | 1455.07 |
| 75 | 631 | 1432.37 | 651 | 1477.77 |
| 80 | 642 | 1457.34 | 663 | 1505.01 |
| 85 | 659 | 1495.93 | 676 | 1534.52 |
| 90 | 667 | 1514.09 | 692 | 1570.84 |
| 95 | 594 | 1348.38 | 709 | 1609.43 |
| 100 | 706 | 1602.62 | 733 | 1663.91 |
| 105 | 731 | 1659.37 | 762 | 1729.74 |
| 110 | 752 | 1707.04 | 794 | 1802.38 |
| 115 | 799 | 1813.73 | 844 | 1915.88 |
| 120 | 875 | 1986.25 | 908 | 2061.16 |
| 122 | 914 | 2074.78 | 954 | 2165.58 |
| 124 | 959 | 2176.93 | 1000 | 2270 |
| 126 | 999 | 2267.73 | 1068 | 2424.36 |
| 127 | 1066 | 2419.82 | 1129 | 2562.83 |
| 128 | 1090 | 2474.3 | 1151 | 2612.77 |
| 129 | 1119 | 2540.13 | 1180 | 2678.6 |
| 130 | 1138 | 2583.26 | 1201 | 2726.27 |
| 131 | 1152 | 2615.04 | 1211 | 2748.97 |
| 132 | 1160 | 2633.2 | 1221 | 2771.67 |
| 133 | 1160 | 2633.2 | 1223 | 2776.21 |
| 134 | 1161 | 2635.47 | 1220 | 2769.4 |
| 135 | 1158 | 2628.66 | 1215 | 2758.05 |
| 136 | 1152 | 2615.04 | 1213 | 2753.51 |
| 137 | 1150 | 2610.5 | 1210 | 2746.7 |
| 138 | 1140 | 2587.8 | 1192 | 2705.84 |
| 139 | 1131 | 2567.37 | 1170 | 2655.9 |
| 140 | 943 | 2140.61 | 1150 | 2610.5 |
| 142 | 937 | 2126.99 | 990 | 2247.3 |
| 144 | 925 | 2099.75 | 951 | 2158.77 |
| 146 | 913 | 2072.51 | 931 | 2113.37 |
| 148 | 899 | 2040.73 | 910 | 2065.7 |
| 150 | 884 | 2006.68 | 895 | 2031.65 |
| 155 | 845 | 1918.15 | 850 | 1929.5 |
| 160 | 805 | 1827.35 | 816 | 1852.32 |
| 165 | 762 | 1729.74 | 739 | 1677.35 |
| 170 | 739 | 1677.53 | 723 | 1641.21 |