

# CCAF

## 1, Feature

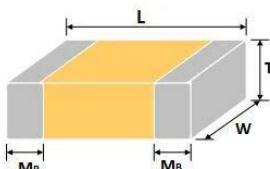
- ◆ Chip structure, suitable for surface mount;
- ◆ National military standard;
- ◆ Each batch is DPA, and 100% of the products are screened for temperature shock and high temperature load.

## 2, Application

- I dielectric:** Resonant circuits, coupling circuits and circuits requiring low loss, high capacitance stability and high insulation resistance
- II dielectric:** Circuits with bypass, filter, low frequency coupling or low requirements for loss and capacitance stability



## 3, Part number sample

| CCAF                                                                                           | 0805                         | CG                       | 101                    | J                 | 1H                                                                                                                                                                                                                                 | 6                    |                      |            |         |
|------------------------------------------------------------------------------------------------|------------------------------|--------------------------|------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|------------|---------|
| series                                                                                         | size code                    | temperature coefficient  | Capacitance code       | tolerance code    | voltage code                                                                                                                                                                                                                       | failure rate class   |                      |            |         |
| 6 failure rate class 6 / 5 failure rate class 5 aerospace technology                           |                              |                          |                        |                   |                                                                                                                                                                                                                                    |                      |                      |            |         |
| size code (unit: mm)                                                                           |                              |                          |                        |                   |                                                                                                                                                                                                                                    |                      |                      |            |         |
| outline                                                                                        | size                         | 0402                     | 0603                   | 0805              | 1210                                                                                                                                                                                                                               | 1812                 |                      |            |         |
| <br>unit: mm | L                            | 1.00±0.10                | 1.60±0.15              | 2.00±0.30         | 3.20±0.40                                                                                                                                                                                                                          | 4.50±0.50            |                      |            |         |
|                                                                                                | W                            | 0.50±0.10                | 0.80±0.15              | 1.25±0.20         | 2.50±0.30                                                                                                                                                                                                                          | 3.20±0.40            |                      |            |         |
|                                                                                                | T max                        | 0.60                     | 1.00                   | 1.50              | 2.80                                                                                                                                                                                                                               | 3.50                 |                      |            |         |
|                                                                                                | size                         | 2220                     | 2225                   | 3025              | /                                                                                                                                                                                                                                  | /                    |                      |            |         |
|                                                                                                | L                            | 5.70±0.50                | 5.70±0.50              | 7.50±0.50         | /                                                                                                                                                                                                                                  | /                    |                      |            |         |
|                                                                                                | W                            | 5.00±0.50                | 6.50±0.50              | 6.30±0.50         | /                                                                                                                                                                                                                                  | /                    |                      |            |         |
|                                                                                                | T max                        | 5.10                     | 5.10                   | 5.00              | /                                                                                                                                                                                                                                  | /                    |                      |            |         |
|                                                                                                | M <sub>B</sub>               | 0.95±0.30                | 0.95±0.30              | 0.50±0.50         | /                                                                                                                                                                                                                                  | /                    |                      |            |         |
| temperature coefficient                                                                        |                              |                          | capacitance markmethod |                   |                                                                                                                                                                                                                                    |                      |                      |            |         |
| series                                                                                         | temperature coefficient/code | Allow capacitance change |                        | temperature range | It is marked with three digits, The first two digits mark the effective value of the electrical capacity, The third digit mark the number of zeros after the valid value, unit pF, for exmaple: 101=100pF(0.1nF) 103=10000pF(10nF) |                      |                      |            |         |
| CCAF                                                                                           | COG/ CG BP/L                 | without U <sub>R</sub>   | with U <sub>R</sub>    | -55℃~125℃         |                                                                                                                                                                                                                                    |                      |                      |            |         |
|                                                                                                | BX / O                       | ±15%                     | +15/-25%               | -55℃~125℃         |                                                                                                                                                                                                                                    |                      |                      |            |         |
|                                                                                                | BR / Y                       | ±15%                     | +15/-40%               | -55℃~125℃         |                                                                                                                                                                                                                                    |                      |                      |            |         |
|                                                                                                | BY / M                       | ±15%                     | /                      | -55℃~125℃         |                                                                                                                                                                                                                                    |                      |                      |            |         |
| rated voltage                                                                                  |                              |                          |                        |                   | I dielectric                                                                                                                                                                                                                       | C <sub>R</sub> <10pF | B: ±10pF             | C: ±0.25pF |         |
| 0J 6.3V, 1A 10V, 1C 16V, 1D 20V, 1E 25V, 1H 50V, 1J 63V, 2A 100V, 3A 1000V.....                |                              |                          |                        |                   |                                                                                                                                                                                                                                    |                      | D: ±0.5pF            | /          |         |
| termination                                                                                    |                              |                          |                        |                   |                                                                                                                                                                                                                                    | II dielectric        | C <sub>R</sub> ≥10pF | F: ±1%     | G: ±2%  |
| Nickel Barrier                                                                                 |                              |                          |                        |                   |                                                                                                                                                                                                                                    |                      |                      | J: ±5%     | K: ±10% |
|                                                                                                |                              |                          |                        |                   |                                                                                                                                                                                                                                    | K: ±10%              | M: ±20%              |            |         |

dielectric capacitance sheet

| size |       | 0402 |    |     | 0603 |    |     | 0805 |    |     | 1210 |    |     | 1812 |    |     | 2220 |    |     | 2225 |    |     |
|------|-------|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|
| Cr   | Ur(V) | 25   | 50 | 100 | 25   | 50 | 100 | 25   | 50 | 100 | 25   | 50 | 100 | 25   | 50 | 100 | 25   | 50 | 100 | 25   | 50 | 100 |
| 0R5  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 1R0  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 1R2  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 1R5  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 1R8  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 2R2  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 2R7  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 3R3  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 4R7  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 5R6  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 6R8  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 8R2  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 100  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 120  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 150  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 180  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 220  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 270  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 330  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 390  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 470  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 560  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 680  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 820  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 101  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 121  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 151  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 181  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 221  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 271  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 331  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 391  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 471  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 561  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 681  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 821  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 102  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 122  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 152  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 182  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 222  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 272  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 332  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 392  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 472  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 562  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 682  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 822  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 103  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 123  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 153  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 183  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 223  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 273  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 333  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 473  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 563  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 683  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 823  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |
| 104  |       |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |

BC

implementation standard Q/QJA200091/10A-2019

II dielectric capacitance sheet

| size | 0402  |  | 0603 |    |     | 0805 |    |     | 1210 |    |     | 1812 |    |     | 2220 |    |     | 2225 |    |     | 3025 |     |
|------|-------|--|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|-----|
| Cr   | Ur(v) |  | 25   | 50 | 100 | 25   | 50 | 100 | 25   | 50 | 100 | 25   | 50 | 100 | 25   | 50 | 100 | 25   | 50 | 100 | 50   | 100 |
| 101  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 121  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 151  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 181  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 221  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 271  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 331  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 391  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 471  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 561  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 681  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 821  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 102  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 122  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 152  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 182  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 222  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 272  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 332  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 392  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 472  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 562  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 682  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 822  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 103  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 123  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 153  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 183  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 223  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 333  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 473  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 563  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 683  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 823  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 104  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 124  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 154  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 184  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 224  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 274  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 334  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 474  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 568  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 684  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |
| 824  |       |  |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |     |

BX

BY

BR

implementation standard Q/QJA200091/10A-2019

II dielectric capacitance sheet

| size       | 0805 |    | 1210 |     |     |      |      | 1812 |     |     |      |      | 2220 |     |     |      |      |
|------------|------|----|------|-----|-----|------|------|------|-----|-----|------|------|------|-----|-----|------|------|
| Cr \ Ur(V) | 25   | 50 | 250  | 500 | 630 | 1000 | 2000 | 250  | 500 | 630 | 1000 | 2000 | 250  | 500 | 630 | 1000 | 2000 |
| 100        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 120        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 150        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 180        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 220        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 270        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 330        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 390        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 470        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 560        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 680        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 820        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 101        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 121        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 151        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 181        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 221        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 271        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 331        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 391        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 471        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 561        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 681        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 821        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 102        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 122        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 152        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 182        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 222        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 272        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 332        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 392        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 472        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 562        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 682        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 822        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |
| 103        |      |    |      |     |     |      |      |      |     |     |      |      |      |     |     |      |      |

BC/BP/CG

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II dielectric capacitance sheet

| size |        | 0805 |     |     | 1210 |     |     |     |      | 1812 |     |     |     |     |      |      | 2220 |     |     |     |     |      |      |      |
|------|--------|------|-----|-----|------|-----|-----|-----|------|------|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|------|------|------|
| Cr   | Ur (V) | 250  | 500 | 630 | 200  | 250 | 500 | 630 | 1000 | 2000 | 200 | 250 | 500 | 630 | 1000 | 2000 | 3000 | 200 | 250 | 500 | 630 | 1000 | 2000 | 3000 |
|      |        |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 101    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 121    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 151    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 181    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 221    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 271    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 331    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 391    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 471    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 561    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 681    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 821    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 102    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 122    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 152    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 182    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 222    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 272    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 332    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 392    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 472    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 562    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 682    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 822    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 103    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 123    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 153    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 183    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 223    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 473    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 583    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 683    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 823    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 104    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 124    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 154    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 184    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 224    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 274    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 334    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 474    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 564    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 684    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 824    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |
|      | 105    |      |     |     |      |     |     |     |      |      |     |     |     |     |      |      |      |     |     |     |     |      |      |      |

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