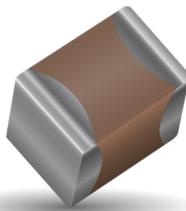


X7R Dielectric, KGM Series

General Specifications



The X7R dielectric is the most popular of the intermediate EIA class II materials due to its relative temperature stability. While the capacitance change is non-linear, temperature variation is within $\pm 15\%$ from -55°C to $+125^\circ\text{C}$.

Capacitance for X7R varies under the influence of electrical operating conditions such as voltage and frequency. X7R dielectric chip usage covers a broad spectrum of industrial applications where known changes in capacitance due to applied voltages are acceptable.

SpicAT is an additional online resource that KYOCERA AVX offers to help create engineering simulations. Please visit spicat.kyocera-avx.com for more information.

HOW TO ORDER

| KGM | 03 | A | R7 | 1E | 101 | M | N |
|--------------------------------------|----------|----------------------------|-----------|-----------|---|---|-----------------|
| General Purpose Tin/Nickel Finish | Size | Thickness See Cap Chart | R7 = X7R | | | Capacitance Tolerance | See Table Below |
| 02= 01005 | 32= 1210 | | 0G = 4.0V | 1H = 50V | 2 Significant Digits + Number of zeros eg. 106 = 10 μF | J* = +/- 5% K = +/- 10% M = +/- 20% | |
| 03= 0201 | 43= 1812 | | 0J = 6.3V | 2A = 100V | | | |
| 05= 0402 | 44= 1825 | | 1A = 10V | 2D = 200V | | | |
| 15= 0603 | 55= 2220 | | 1C = 16V | 2E = 250V | | | |
| 21= 0805 | 56= 2225 | | 1E = 25V | 2H = 500V | | | |
| 31= 1206 | | | | | | | |

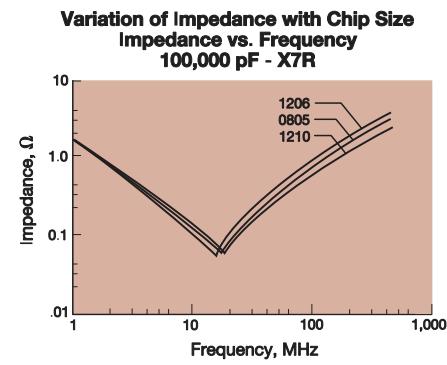
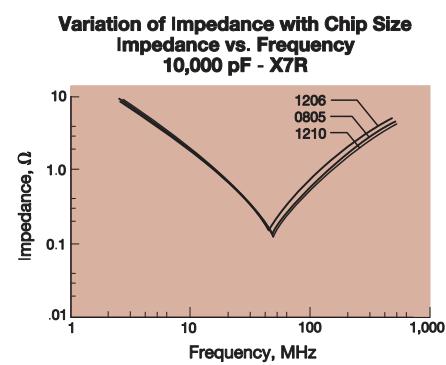
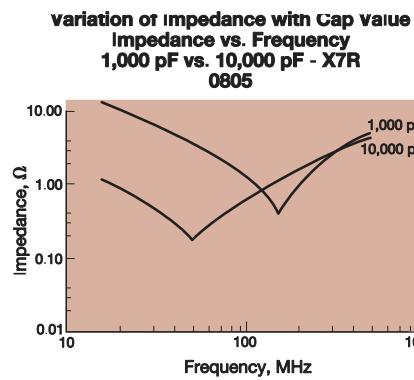
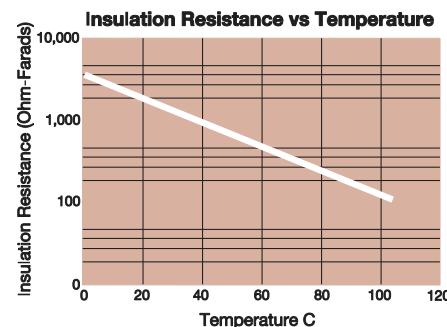
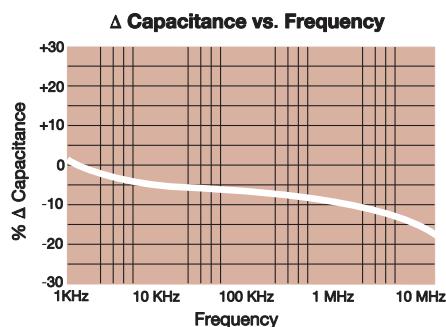
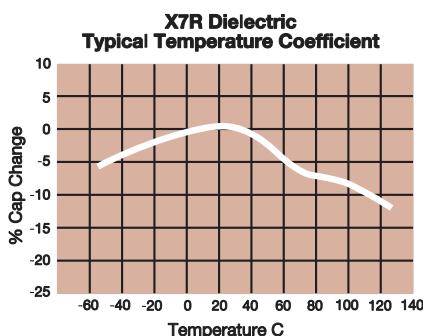
* $\leq 1\mu\text{F}$ only, contact factory for additional values



PACKAGING CODES

| Code | EIA (inch) | IEC(mm) | 7" Paper | 7" Embossed | 13" Paper | 13" Embossed |
|------|------------|---------|----------|-------------|-----------|--------------|
| 02 | 01005 | 0402 | H | | | |
| 03 | 0201 | 0603 | H | | N | |
| 05 | 0402 | 1005 | H | | N | |
| 15 | 0603 | 1608 | T | | M | |
| 21 | 0805 | 2012 | T | U | M | L |
| 31 | 1206 | 3216 | T | U | M | L |
| 32 | 1210 | 3225 | | U | | L |
| 43 | 1812 | 4532 | | V | | S |
| 44 | 1825 | 4564 | | V | | S |
| 55 | 2220 | 5750 | | V | | S |
| 56 | 2225 | 5763 | | V | | S |

*Note: The thickness determines if packaging is paper or embossed.



X7R Dielectric, KGM Series

Specifications and Test Methods



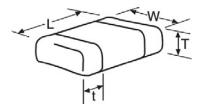
| Parameter/Test | | X7R Specification Limits | Measuring Conditions (Complies with JIS C5101 / IEC60384) |
|-----------------------------|---|--|---|
| Operating Temperature Range | | -55°C to +125°C | Temperature Cycle Chamber |
| Capacitance | Within specified tolerance | | Measure after heat treatment Capacitance Frequency Volt C≤10μF Frequency : 1kHz±10% Volt : 1.0±0.2Vrms *0.5±0.2Vrms |
| Dissipation Factor / Tanδ | Refer to https://spicat.kyocera-avx.com for individual part number specification | | C>10μF Frequency : 120Hz±10% Volt : 0.5±0.2Vrms The charge and discharge current of the capacitor must not exceed 50mA. |
| Insulation Resistance | Refer to https://spicat.kyocera-avx.com for individual part number specification | | Apply the rated voltage for 1 minute, and measure it in normal temperature and humidity. The charge and discharge current of the capacitor must not exceed 50mA. |
| Dielectric Strength | No breakdown or visual defects | | Charge device with 250% of rated voltage for 1-5 seconds, w/charge and discharge current limited to 50 mA (max) Note: Charge device with 150% of rated voltage for 500V devices. |
| Bending Strength | No significant damage with 1mm bending | | Glass epoxy PCB: Fulcrum spacing: 90mm, duration time 10 seconds. Soaking condition Sn-3Ag-0.5Cu 245±5°C 3±0.5 sec. |
| Solderability | Solder coverage : 95% min. | | |
| Resistance to Solder Heat | Appearance | No problem observed | Take the initial value after heat treatment. |
| | Capacitance Variation | ≤ ±7.5% | Soak the sample in 260°C±5°C solder for 10±0.5 seconds and place in normal temperature and humidity, and measure after heat treatment. |
| | Dissipation Factor / Tanδ | Within specification | (Pre-heating conditions) Order Temperature Time 1 80 to 100°C 2 minutes 2 150 to 200°C 2 minutes |
| | Insulation Resistance | Within specification | |
| | Withstanding Voltage / Dielectric Strength | Resist without problem | The charge and discharge current of the capacitor must not exceed 50mA for IR and withstand voltage measurement. |
| Thermal Shock | Appearance | No visual defects | Take the initial value after heat treatment. (Cycle) Room temperature (3 min.)→> Lowest operation temperature (30 min.)→> Room temperature (3 min.)→> Highest operation temperature(30 min.) |
| | Capacitance Variation | ≤ ±7.5% | After 5 cycles, measure after heat treatment. |
| | Dissipation Factor | Within specification | The charge and discharge current of the capacitor must not exceed 50mA for IR and withstand voltage measurement. |
| | Insulation Resistance | Within specification | |
| | Withstanding Voltage / Dielectric Strength | Resist without problem | |
| Load Life | Appearance | No visual defects | Take the initial value after heat treatment. |
| | Capacitance Variation | ≤ ±12.5% | After applying *1.5 the rated voltage at the highest operation temperature for 1000+12/-0 hours, and measure the sample after heat treatment in normal temperature and humidity. |
| | Dissipation Factor / Tanδ | ≤ Initial Value x 2.0 (See Above) | The charge and discharge current of the capacitor must not exceed 50mA for IR measurement. |
| | Insulation Resistance | Over 1000MΩ or 50MΩ · μF, whichever is less. *Exceptions Listed Below | *Apply 1.0 times when the rated voltage is 4V or less. Applied voltages for respective products are indicated in the chart below. |
| Load Humidity | Appearance | No visual defects | Take the initial value after heat treatment. |
| | Capacitance Variation | ≤ ±12.5% | After applying rated voltage for 500+12/-0 hours in the condition of 40°C ± 2°C and 90 to 95%RH, and place in normal temperature and humidity, then measure the sample after heat treatment. |
| | Dissipation Factor / Tanδ | Within specification | The charge and discharge current of the capacitor must not exceed 50mA for IR measurement. |
| | Insulation Resistance | Over 1000MΩ or 50MΩ · μF, whichever is less. *Exceptions Listed Below | |
| Appearance | | No problem observed | Microscope |
| Termination Strength | | No problem observed | Apply a sideward force of 500g (5N) to a PCB-mounted sample. note : 2N for 0201 size, and 1N for 01005 size. |
| Vibration | Appearance | No problem observed | Take the initial value after heat treatment. |
| | Capacitance | Within tolerance | Vibration frequency: 10 to 55 (Hz) Amplitude: 1.5mm |
| | Tanδ | Within tolerance | Sweeping condition: 10 → 55 → 10Hz/ 1 minute in X, Y and Z directions: 2 hours each, 6 hours in total, and place in normal temperature and humidity, then measure the sample after heat treatment. |
| Heat Treatment | | Expose sample in the temperature of 150+0/-10°C for 1 hour and leave the sample in normal temperature and humidity for 24±2 hours. | |

Voltage to be applied in the High Temperature Load (Applied voltage is the multiple of the rated voltage)

X7R Dielectric, KGM Series



Capacitance Range



| SIZE | 01005 | 0201 | | | | 0402 | | | | 0603 | | | | 0805 | | | | 1206 | | | | | | | | | | | | | | |
|------------------|---------------------------------|--------------------------------|----|----|----|--------------------------------|-----|----|----|--------------------------------|----|-----|-----|--------------------------------|----|----|----|--------------------------------|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|---|---|
| Soldering | Reflow Only | Reflow Only | | | | Reflow/Wave | | | | Reflow/Wave | | | | Reflow/Wave | | | | Reflow/Wave | | | | | | | | | | | | | | |
| Packaging | All Paper | All Paper | | | | All Paper | | | | Paper/Embossed | | | | Paper/Embossed | | | | Paper/Embossed | | | | | | | | | | | | | | |
| (L) Length (in.) | mm 0.40 ± 0.02 (0.016 ± 0.0008) | mm 0.60 ± 0.03 (0.024 ± 0.001) | | | | mm 1.00 ± 0.10 (0.040 ± 0.004) | | | | mm 1.60 ± 0.15 (0.063 ± 0.006) | | | | mm 2.01 ± 0.20 (0.079 ± 0.008) | | | | mm 3.20 ± 0.30 (0.126 ± 0.012) | | | | | | | | | | | | | | |
| W) Width (in.) | mm 0.20 ± 0.02 (0.008 ± 0.0008) | mm 0.30 ± 0.03 (0.011 ± 0.001) | | | | mm 0.50 ± 0.10 (0.020 ± 0.004) | | | | mm 0.81 ± 0.15 (0.032 ± 0.006) | | | | mm 1.25 ± 0.20 (0.049 ± 0.008) | | | | mm 1.60 ± 0.30 (0.063 ± 0.012) | | | | | | | | | | | | | | |
| (t) Terminal | mm 0.10 ± 0.04 (0.004 ± 0.0016) | mm 0.15 ± 0.05 (0.006 ± 0.002) | | | | mm 0.25 ± 0.15 (0.010 ± 0.006) | | | | mm 0.35 ± 0.15 (0.014 ± 0.006) | | | | mm 0.50 ± 0.25 (0.020 ± 0.010) | | | | mm 0.50 ± 0.25 (0.020 ± 0.010) | | | | | | | | | | | | | | |
| WVDC | 16 | 6.3 | 10 | 16 | 25 | 50 | 6.3 | 10 | 16 | 25 | 50 | 100 | 6.3 | 10 | 16 | 25 | 50 | 100 | 200 | 250 | 500 | 6.3 | 10 | 16 | 25 | 50 | 100 | 200 | 250 | 500 | | |
| Cap 100 101 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | | | | | B | | | | | | | | | | |
| (pF) 150 151 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | | | | | B | | | | | | | | | | |
| 220 221 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | B | B | B | B | B | T | T | D | |
| 330 331 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | B | B | B | B | B | T | T | D | |
| 470 471 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | B | B | B | B | B | T | T | D | |
| 680 681 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | B | B | B | B | B | T | T | D | |
| 1000 102 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | B | B | B | B | B | T | T | D | |
| 1500 152 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | B | B | B | B | B | T | T | D | |
| 2200 222 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | B | B | B | B | B | T | T | D | |
| 3300 332 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | A | A | A | B | B | T | T | D | |
| 3900 392 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | A | A | A | B | B | B | T | T | D |
| 4700 472 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | A | A | A | B | B | B | T | T | D |
| 5600 562 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | A | A | A | B | B | B | T | T | D |
| 6800 682 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | A | A | A | B | B | B | T | T | D |
| Cap 0.010 103 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | A | A | A | B | B | B | D | D | D |
| (μF) 0.012 123 | | | | | | | | | | | | | | | | A | A | A | A | A | A | A | B | B | B | B | B | D | D | D | | |
| 0.015 153 | | | | | | | | | | | | | | | | A | A | A | A | A | A | A | B | B | B | B | B | D | D | D | | |
| 0.018 183 | | | | | | | | | | | | | | | | A | A | A | A | A | A | A | B | B | B | B | B | D | D | D | | |
| 0.022 223 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | B | N | N | N | N | N | N | A | A | A | B | B | B | D | D | A |
| 0.027 273 | | | | | | | | | | | | | | | | A | A | A | A | A | A | A | B | B | B | B | B | D | D | A | | |
| 0.033 333 | | | | | | | | | | | | | | | | A | A | A | A | A | A | A | B | B | B | B | B | A | A | A | | |
| 0.039 393 | | | | | | | | | | | | | | | | A | A | A | A | A | A | A | B | B | B | B | B | B | A | A | A | |
| 0.047 473 | | | | | | | | | | | | | | | | A | A | A | A | A | A | A | B | B | B | B | B | B | A | A | A | |
| 0.068 683 | | | | | | | | | | | | | | | | A | A | A | C | A | A | A | B | B | B | N | N | N | A | A | | |
| 0.082 823 | | | | | | | | | | | | | | | | A | A | A | C | A | A | A | B | B | B | N | N | N | A | A | | |
| 0.1 104 | A | | | | | | | | | | | | | | | A | A | A | C | A | A | A | B | B | B | N | N | N | A | A | | |
| 0.12 124 | | | | | | | | | | | | | | | | A | A | A | B | B | | | N | N | N | E | A | | | | | |
| 0.15 154 | | | | | | | | | | | | | | | | A | A | A | B | B | | | E | E | E | E | A | | | | | |
| 0.22 224 | | | | | | | | | | | | | | | | A | A | B | B | B | B | | A | A | A | A | A | | V | V | M | |
| 0.33 334 | | | | | | | | | | | | | | | | B | B | B | B | B | B | | A | A | A | A | A | | V | V | M | |
| 0.47 474 | | | | | | | | | | | | | | | | B | B | B | B | B | B | | A | A | A | A | A | | H | H | H | |
| 0.68 684 | | | | | | | | | | | | | | | | B | B | B | B | B | B | | A | A | A | A | A | | H | H | H | |
| 1.0 105 | | | | | | | | | | | | | | | | B | B | B | B | B | C | | A | A | A | A | A | | H | H | H | |
| 2.2 225 | | | | | | | | | | | | | | | | B | B | B | C | | | | A | A | A | A | A | | H | H | H | |
| 4.7 475 | | | | | | | | | | | | | | | | C | | | | | | | A | A | A | A | A | | H | H | A | |
| 10 106 | | | | | | | | | | | | | | | | | | | | | | | A | A | A | A | A | | H | H | A | |
| 22 226 | | | | | | | | | | | | | | | | | | | | | | | A | A | | | | | | | | |
| 47 476 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WVDC | 16 | 6.3 | 10 | 16 | 25 | 50 | 6.3 | 10 | 16 | 25 | 50 | 100 | 6.3 | 10 | 16 | 25 | 50 | 100 | 200 | 250 | 6.3 | 10 | 16 | 25 | 50 | 100 | 200 | 250 | 500 | | | |
| SIZE | 01005 | 0201 | | | | 0402 | | | | 0603 | | | | 0805 | | | | 1206 | | | | | | | | | | | | | | |

X7R Dielectric, KGM Series

Capacitance Range

| SIZE | 1210 | | | | | | 1812 | | | | | | 1825 | | | | | | 2220 | | | | | | 2225 | | | | | | | | |
|-----------------------------|------------------------------------|----|----|----|-----|-----|------------------------------------|----|----|----|-----|-----|------------------------------------|----|-----|-----|-----|----|------------------------------------|-----|-----|-----|----|-----|------------------------------------|-----|----|-----|-----|-----|--|--|--|
| Soldering | Reflow Only | | | | | | Reflow Only | | | | | | Reflow Only | | | | | | Reflow Only | | | | | | Reflow Only | | | | | | | | |
| Packaging | Paper/Embossed | | | | | | All Embossed | | | | | | All Embossed | | | | | | All Embossed | | | | | | All Embossed | | | | | | | | |
| (L) Length mm (in.) | 3.30 ± 0.4 (0.130 ± 0.016) | | | | | | 4.50 ± 0.40 (0.177 ± 0.016) | | | | | | 4.50 ± 0.40 (0.177 ± 0.016) | | | | | | 5.70 ± 0.50 (0.224 ± 0.020) | | | | | | 5.70 ± 0.40 (0.224 ± 0.016) | | | | | | | | |
| (W) Width mm (in.) | 2.50 ± 0.30 (0.098 ± 0.012) | | | | | | 3.20 ± 0.40 (0.126 ± 0.016) | | | | | | 6.40 ± 0.40 (0.252 ± 0.016) | | | | | | 5.00 ± 0.40 (0.197 ± 0.016) | | | | | | 6.30 ± 0.40 (0.248 ± 0.016) | | | | | | | | |
| (t) Terminal mm (in.) | 0.50 ± 0.25 (0.020 ± 0.010) | | | | | | 0.61 ± 0.36 (0.024 ± 0.014) | | | | | | 0.61 ± 0.36 (0.024 ± 0.014) | | | | | | 0.64 ± 0.39 (0.025 ± 0.015) | | | | | | 0.64 ± 0.39 (0.025 ± 0.015) | | | | | | | | |
| WVDC | 10 | 16 | 25 | 50 | 100 | 200 | 500 | 16 | 25 | 50 | 100 | 200 | 500 | 50 | 100 | 200 | 500 | 25 | 50 | 100 | 200 | 500 | 50 | 100 | 200 | 500 | 50 | 100 | 200 | 500 | | | |
| Cap 100 (pF) 151 | R | R | R | R | R | R | D | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 221 | R | R | R | R | R | R | D | A | A | A | A | A | A | | | | | | | | | | | | | | | | | | | | |
| 330 331 | R | R | R | R | R | R | D | A | A | A | A | A | A | | | | | | | | | | | | | | | | | | | | |
| 470 471 | R | R | R | R | R | R | D | A | A | A | A | A | A | | | | | | | | | | | | | | | | | | | | |
| 680 681 | R | R | R | R | R | R | D | A | A | A | A | A | A | | | | | | | | | | | | | | | | | | | | |
| 1000 102 | R | R | R | R | R | R | D | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 1500 152 | R | R | R | R | R | R | D | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 2200 222 | R | R | R | R | R | R | D | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 3300 332 | R | R | R | R | R | R | E | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 3900 392 | R | R | R | R | R | R | E | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 4700 472 | R | R | R | R | R | R | E | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 5600 562 | R | R | R | R | R | R | E | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 6800 682 | R | R | R | R | R | R | E | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| Cap 0.010 103 | R | R | R | R | R | R | E | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| (μF) 0.012 123 | R | R | R | R | R | R | E | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.015 153 | R | R | R | R | R | R | E | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.018 183 | R | R | R | R | R | R | E | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.022 223 | R | R | R | R | R | R | E | A | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.027 273 | R | R | R | R | R | R | E | H | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.033 333 | R | R | R | R | R | R | E | H | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.039 393 | R | R | R | R | R | R | E | H | A | A | A | A | B | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.047 473 | R | R | R | R | R | R | E | H | A | A | A | A | B | B | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.068 683 | R | R | R | R | R | R | H | P | A | A | A | A | B | F | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.082 823 | R | R | R | R | R | R | H | P | A | A | A | A | B | F | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.100 104 | R | R | R | R | R | R | H | P | A | A | A | B | B | F | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.120 124 | R | R | R | R | R | R | H | | A | A | A | B | B | J | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.150 154 | E | E | E | E | E | L | | A | A | A | B | F | J | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.220 224 | E | E | E | E | E | L | | A | A | A | B | F | J | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.330 334 | E | E | E | E | H | L | | A | A | A | B | F | J | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.470 474 | E | E | E | E | H | L | | A | A | A | F | F | J | C | C | C | C | Z | Z | Z | Z | Z | Z | D | D | D | D | D | D | | | | |
| 0.680 684 | E | E | E | E | L | L | | F | F | F | F | J | | C | C | C | C | Z | Z | Z | Z | C | D | D | D | G | | | | | | | |
| 1.000 105 | E | E | E | G | L | | | F | F | F | F | J | | C | C | C | C | Z | Z | Z | Z | D | D | D | D | | | | | | | | |
| 2.200 225 | L | L | L | L | L | | | F | F | F | J | | | C | C | F | | Z | Z | Z | C | | | D | D | G | | | | | | | |
| 4.700 475 | L | L | L | L | | | | J | J | J | J | | | C | F | | | Z | Z | C | | | | D | G | | | | | | | | |
| 10 106 | L | L | L | A | | | | J | J | J | J | | | F | F | | | C | C | D | | | | G | G | | | | | | | | |
| 22 226 | L | A | L | | | | | | | | | | | | | | | | | | | | | D | H | | | | | | | | |
| 47 476 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SIZE | 1210 | | | | | | 1812 | | | | | | 1825 | | | | | | 2220 | | | | | | 2225 | | | | | | | | |

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