

High Voltage MLC Chips

For 600V to 5000V Applications

X7R Dielectric

Performance Characteristics

| | |
|--|--|
| Capacitance Range | 10 pF to 0.82 μF (25°C, 1.0 ±0.2 Vrms at 1kHz) |
| Capacitance Tolerances | ±10%; ±20%; +80%, -20% |
| Dissipation Factor | 2.5% max. (+25°C, 1.0 ±0.2 Vrms, 1kHz) |
| Operating Temperature Range | -55°C to +125°C |
| Temperature Characteristic | ±15% (0 VDC) |
| Voltage Ratings | 600, 630, 1000, 1500, 2000, 2500, 3000, 4000 & 5000 VDC (+125°C) |
| Insulation Resistance (+25°C, at 500 VDC) | 100K MΩ min. or 1000 MΩ - μF min., whichever is less |
| Insulation Resistance (+125°C, at 500 VDC) | 10K MΩ min. or 100 MΩ - μF min., whichever is less |
| Dielectric Strength | Minimum 120% rated voltage for 5 seconds at 50 mA max. current |

X7R CAPACITANCE RANGE – PREFERRED SIZES ARE SHADED

| Case Size Soldering | 0805 | | | 1206 | | | | | 1210 | | | | | 1808 | | | | | | | | 1812 | | | | | | | |
|------------------------|------------------------------|-----|------|---|-----|------|------|------|------------------------------|-----|------|------|------|------------------------------|-----|------|------|------|------|------|------|------------------------------|-----|------|------|------|------|------|------|
| | Reflow/Wave | | | Reflow/Wave | | | | | Reflow Only | | | | | Reflow Only | | | | | | | | Reflow Only | | | | | | | |
| (L) Length | 2.10 ±0.20 (0.085 ±0.008) | | | 3.30 ±0.30 (0.130 ±0.012) | | | | | 3.30 ±0.40 (0.130 ±0.016) | | | | | 4.60 ±0.50 (0.181 ±0.020) | | | | | | | | 4.60 ±0.50 (0.177 ±0.012) | | | | | | | |
| W) Width | 1.25 ±0.20 (0.049 ±0.008) | | | 1.60 +0.30/-0.10 (0.063 +0.012/-0.004) | | | | | 2.50 ±0.30 (0.098 ±0.012) | | | | | 2.00 ±0.20 (0.079 ±0.008) | | | | | | | | 3.20 ±0.30 (0.126 ±0.008) | | | | | | | |
| (T) Thickness | 1.35 (0.053) | | | 1.80 (0.071) | | | | | 2.80 (0.110) | | | | | 2.20 (0.087) | | | | | | | | 2.80 (0.100) | | | | | | | |
| (t) Terminal | 0.50 ±0.20 (0.020 ±0.008) | | | 0.60 ±0.20 (0.024 ±0.008) | | | | | 0.75 ±0.35 (0.030 ±0.014) | | | | | 0.75 ±0.35 (0.030 ±0.014) | | | | | | | | 0.75 ±0.35 (0.030 ±0.014) | | | | | | | |
| Voltage (V) | 600 | 630 | 1000 | 600 | 630 | 1000 | 1500 | 2000 | 600 | 630 | 1000 | 1500 | 2000 | 600 | 630 | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 | 600 | 630 | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 |
| Cap (pF) 100 | 101 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 120 | 121 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 150 | 151 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 180 | 181 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 220 | 221 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 270 | 271 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 330 | 331 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 390 | 391 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 470 | 471 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 560 | 561 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 680 | 681 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 750 | 751 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 820 | 821 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 1000 | 102 | X | X | X | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 1200 | 122 | X | X | X | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 1500 | 152 | X | X | X | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 1800 | 182 | X | X | C | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 2200 | 222 | X | X | X | C | C | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | |
| 2700 | 272 | C | C | | C | C | E | E | | E | E | E | F | E | E | E | E | F | F | | F | F | F | F | F | F | G | G | |
| 3300 | 332 | C | C | | C | C | E | | | E | E | E | F | E | E | E | E | F | F | | F | F | F | F | F | F | G | G | |
| 3900 | 392 | C | C | | C | C | E | | | E | E | E | F | | | E | E | E | F | | F | F | F | F | F | F | G | G | |
| 4700 | 472 | C | C | | C | C | E | | | E | E | E | F | | | E | E | E | F | | F | F | F | F | F | F | G | G | |
| 5600 | 562 | C | C | | C | C | E | | | E | E | E | F | | | E | E | E | F | | F | F | F | F | G | G | G | | |
| 6800 | 682 | C | C | | C | C | E | | | E | E | E | | | | E | E | E | F | | F | F | F | G | G | G | | | |
| 8200 | 822 | C | C | | C | C | E | | | E | E | E | | | | E | E | E | | | F | F | F | G | G | G | | | |
| Cap (μF) 0.010 | 103 | C | C | | C | C | E | | | E | E | E | | | | E | E | E | | | F | F | F | G | G | | | | |
| 0.015 | 153 | C | C | | E | E | E | | | E | E | E | | | | F | F | F | | | F | F | F | G | | | | | |
| 0.018 | 183 | C | C | | E | E | | | | E | E | E | | | | F | F | F | | | F | F | G | | | | | | |
| 0.022 | 223 | C | C | | E | E | | | | E | E | F | | | | F | F | F | | | F | F | G | | | | | | |
| 0.027 | 273 | | | | E | E | | | | E | E | | | | | F | F | | | | F | F | G | | | | | | |
| 0.033 | 333 | | | | E | E | | | | E | E | | | | | F | F | | | | F | F | G | | | | | | |
| 0.039 | 393 | | | | | | | | | E | E | | | | | F | F | | | | F | F | G | | | | | | |
| 0.047 | 473 | | | | | | | | | E | E | | | | | F | F | | | | F | F | G | | | | | | |
| 0.056 | 563 | | | | | | | | | F | F | | | | | F | F | | | | F | F | | | | | | | |
| 0.068 | 683 | | | | | | | | | F | F | | | | | F | F | | | | F | F | | | | | | | |
| 0.082 | 823 | | | | | | | | | F | F | | | | | | | | | | F | F | | | | | | | |
| 0.100 | 104 | | | | | | | | | F | F | | | | | | | | | | F | F | | | | | | | |
| 0.150 | 154 | | | | | | | | | | | | | | | | | | | | | | G | G | | | | | |
| 0.220 | 224 | | | | | | | | | | | | | | | | | | | | | | G | G | | | | | |
| 0.270 | 274 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.330 | 334 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.390 | 394 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.470 | 474 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.560 | 564 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.680 | 684 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.820 | 824 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage (V) | 600 | 630 | 1000 | 600 | 630 | 1000 | 1500 | 2000 | 600 | 630 | 1000 | 1500 | 2000 | 600 | 630 | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 | 600 | 630 | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 |
| Case Size | 0805 | | | 1206 | | | | | 1210 | | | | | 1808 | | | | | | | | 1812 | | | | | | | |

| | | | | | | | |
|----------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-----------------|
| Letter | A | C | E | F | G | X | 7 |
| Max. Thickness | 0.813 (0.032) | 1.448 (0.057) | 1.8034 (0.071) | 2.2098 (0.087) | 2.794 (0.110) | 0.940 (0.037) | 3.30 (0.130) |

NOTE: Contact factory for non-specified capacitance values

High Voltage MLC Chips

For 600V to 5000V Applications



X7R CAPACITANCE RANGE

PREFERRED SIZES ARE SHADED

| Case Size | 1825 | | | | | | | | 2220 | | | | | | | | 2225 | | | | | | | | 3640 | | | | | | | | | | |
|--------------------|-----------------|-----|------|------|------|------|------|------|-----------------|-----|------|------|------|------|------|------|-----------------|-----|-----|------|------|------|------|------|-----------------|------|-----|-----|------|------|------|------|------|------|------|
| Soldering | Reflow Only | | | | | | | | Reflow Only | | | | | | | | Reflow Only | | | | | | | | Reflow Only | | | | | | | | | | |
| (L) Length mm | 4.60 ± 0.50 | | | | | | | | 5.70 ± 0.50 | | | | | | | | 5.70 ± 0.50 | | | | | | | | 9.14 ± 0.25 | | | | | | | | | | |
| (L) Length (in) | (0.181 ± 0.020) | | | | | | | | (0.224 ± 0.020) | | | | | | | | (0.225 ± 0.010) | | | | | | | | (0.360 ± 0.010) | | | | | | | | | | |
| (W) Width mm | 6.30 ± 0.40 | | | | | | | | 5.00 ± 0.40 | | | | | | | | 6.30 ± 0.40 | | | | | | | | 10.2 ± 0.25 | | | | | | | | | | |
| (W) Width (in) | (0.248 ± 0.016) | | | | | | | | (0.197 ± 0.016) | | | | | | | | (0.250 ± 0.010) | | | | | | | | (0.400 ± 0.010) | | | | | | | | | | |
| (T) Thickness mm | 3.40 | | | | | | | | 3.40 | | | | | | | | 3.40 | | | | | | | | 2.54 | | | | | | | | | | |
| (T) Thickness (in) | (0.134) | | | | | | | | (0.134) | | | | | | | | (0.100) | | | | | | | | (0.100) | | | | | | | | | | |
| (t) Terminal mm | 0.75 ± 0.35 | | | | | | | | 0.85 ± 0.35 | | | | | | | | 0.85 ± 0.35 | | | | | | | | 0.76 (0.030) | | | | | | | | | | |
| (t) Terminal max | (0.030 ± 0.014) | | | | | | | | (0.033 ± 0.014) | | | | | | | | (0.033 ± 0.014) | | | | | | | | 1.52 (0.060) | | | | | | | | | | |
| Voltage (V) | 600 | 630 | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 | 600 | 630 | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 | 5000 | 600 | 630 | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 | 5000 | 600 | 630 | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 | 5000 |
| Cap (pF) 100 | 101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 121 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 151 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180 | 181 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 | 221 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 270 | 271 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 330 | 331 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 390 | 391 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 470 | 471 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 560 | 561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 680 | 681 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 750 | 751 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 820 | 821 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 102 | F | F | F | F | F | F | F | F | F | F | F | F | F | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 1200 | 122 | F | F | F | F | F | F | F | F | F | F | F | F | F | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 1500 | 152 | F | F | F | F | F | F | F | F | F | F | F | F | F | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 1800 | 182 | F | F | F | F | F | F | F | F | F | F | F | F | F | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 2200 | 222 | F | F | F | F | F | F | F | F | F | F | F | F | F | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 2700 | 272 | F | F | F | F | F | F | F | F | F | F | F | F | F | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 3300 | 332 | F | F | F | F | F | F | F | F | F | F | F | F | F | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 3900 | 392 | F | F | F | F | F | F | F | F | F | F | F | F | F | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 4700 | 472 | F | F | F | F | F | F | F | F | F | F | F | F | F | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 5600 | 562 | F | F | F | F | F | F | F | F | F | F | F | F | F | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 6800 | 682 | F | F | F | G | G | G | G | G | G | G | G | G | G | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 8200 | 822 | F | F | F | G | G | G | G | G | G | G | G | G | G | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| Cap (µF) 0.010 | 103 | F | F | F | G | G | G | G | G | G | G | G | G | G | G | | F | F | F | F | F | F | F | F | | G | G | G | G | G | G | G | | | |
| 0.015 | 153 | F | F | F | G | G | G | | | | | | | | | | F | F | F | G | G | G | G | G | | G | G | G | G | G | G | G | | | |
| 0.018 | 183 | F | F | F | G | G | | | | | | | | | | | F | F | F | G | G | G | G | G | | G | G | G | G | G | G | G | | | |
| 0.022 | 223 | F | F | F | G | G | | | | | | | | | | | F | F | F | G | G | G | | | | G | G | G | G | G | G | | | | |
| 0.027 | 273 | F | F | F | G | | | | | | | | | | | | F | F | F | G | G | | | | | G | G | G | G | G | | | | | |
| 0.033 | 333 | F | F | F | G | | | | | | | | | | | | F | F | F | G | G | | | | | G | G | G | G | | | | | | |
| 0.039 | 393 | F | F | F | G | | | | | | | | | | | | F | F | F | G | | | | | | G | G | G | | | | | | | |
| 0.047 | 473 | F | F | F | P | | | | | | | | | | | | F | F | F | G | | | | | | G | G | G | | | | | | | |
| 0.056 | 563 | F | F | F | G | | | | | | | | | | | | F | F | F | G | | | | | | G | G | G | | | | | | | |
| 0.068 | 683 | F | F | G | | | | | | | | | | | | | F | F | F | G | | | | | | G | G | G | | | | | | | |
| 0.082 | 823 | F | F | G | | | | | | | | | | | | | F | F | G | | | | | | | G | G | | | | | | | | |
| 0.100 | 104 | F | F | G | | | | | | | | | | | | | F | F | G | | | | | | | G | G | | | | | | | | |
| 0.150 | 154 | F | F | | | | | | | | | | | | | | F | F | G | | | | | | | G | G | | | | | | | | |
| 0.220 | 224 | F | F | | | | | | | | | | | | | | F | F | G | | | | | | | G | G | | | | | | | | |
| 0.270 | 274 | F | F | | | | | | | | | | | | | | F | F | | | | | | | | G | G | | | | | | | | |
| 0.330 | 334 | F | F | | | | | | | | | | | | | | F | F | | | | | | | | G | G | | | | | | | | |
| 0.390 | 394 | F | F | | | | | | | | | | | | | | F | F | | | | | | | | G | G | | | | | | | | |
| 0.470 | 474 | F | F | | | | | | | | | | | | | | F | F | | | | | | | | G | G | | | | | | | | |
| 0.560 | 564 | G | G | | | | | | | | | | | | | | F | F | | | | | | | | G | G | | | | | | | | |
| 0.680 | 684 | | | | | | | | | | | | | | | | G | G | | | | | | | | G | G | | | | | | | | |
| 0.820 | 824 | | | | | | | | | | | | | | | | G | G | | | | | | | | | | | | | | | | | |
| 1.000 | 105 | | | | | | | | | | | | | | | | G | G | | | | | | | | | | | | | | | | | |

| Letter | A | C | E | F | G | X | 7 |
|----------------|---------------|---------------|----------------|----------------|---------------|---------------|--------------|
| Max. Thickness | 0.813 (0.032) | 1.448 (0.057) | 1.8034 (0.071) | 2.2098 (0.087) | 2.794 (0.110) | 0.940 (0.037) | 3.30 (0.130) |

NOTE: Contact factory for non-specified capacitance values

Mouser Electronics

Authorized Distributor

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[1206CC332KAJ1A](#) [1206GC102MAJ1A](#) [1210AC272KAJ1A](#) [1210CC272KAJ1A](#) [1210CC563KAJ1A](#)
[1210CC563MAJ1A](#) [1206AC152KAJ1A](#) [1206AC561KAJ1A](#) [1206CC152KAJ1A](#) [1206CC223KAJ1A](#) [1210AC512KAJ1A](#)
[1206AC221KAJ1A](#) [1206CC103JAJ1A](#) [1206GC221KAJ1A](#) [1210AC822KAJ1A](#) [1206AC272KAJ1A](#)
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[1812CC124KAJ1A](#) [1825AC272KAJ3A](#) [1825CC154KAJ3A](#) [1825CC224KAJ1A](#) [2220AC104KAJ1A](#)
[2220CC154KAJ1A](#) [2225AC104MAJ1A](#) [2225CC154KAJ1A](#) [2225CC154MAJ1A](#) [1210CC273KAJ1A](#) [1210CC223KAJ1A](#)
[1812CC563KAJ1A](#) [1812VA223JAT2A](#) [1812VA333JAT2A](#) [1812VA473JAT2A](#)

Kyocera AVX:

[1206AA101JAT1A](#) [1206AA101KAM1A](#) [1206AA220KAT1A](#) [1206AA221JAT1A](#) [1206AA330JAT1A](#)
[1206AA470KAT1A](#) [1206AA471JAT1A](#) [1206AC102KAT1A](#) [1206AC222KAT1A](#) [1206AC272KAT1A](#) [1206AC392KAT1A](#)
[1206AC471KAT1A](#) [1206AC472KA11A](#) [1206AC472KAT1A](#) [1206AC472MAT1A](#) [1206CA101JAT3A](#)
[1206CC102KAT1A](#) [1206CC102MAT1A](#) [1206CC103KAT1A](#) [1206CC153KAT1A](#) [1206CC153MAT1A](#)
[1206CC271KAT1A](#) [1206CC471KAT1A](#) [1206CC472KBT1A](#) [1206CC822KAT1A](#) [1206GA220JAT1A](#)
[1206GA330KAT1A](#) [1206GC101KAT1A](#) [1206GC101MAT1A](#) [1206GC102KAT1A](#) [1206GC221KAT1A](#)
[1206GC471KA11A](#) [1206GC471KAT1A](#) [1206GC471MAT1A](#) [1206JA102KAT2A](#) [1206SA101JAT1A](#) [1206SA390JAT1A](#)
[1206SC102KAT1A](#) [1206SC122KA11A](#) [1206SC122KAT1A](#) [1206SC471KAT1A](#) [1210AA331KAT1A](#)
[1210AC103KAT1A](#) [1210AC222MAT1A](#) [1210AC272KAT1A](#) [1210AC472KAT1A](#) [1210AC822KAT1A](#)
[1210CC102KAT1A](#) [1210CC103KAT1A](#) [1210CC153KAT1A](#) [1210CC223KAT1A](#) [1210CC273KAT1A](#)
[1210GC101KAT1A](#) [1210GC102KAT1A](#) [1210GC102MAT1A](#) [1210GC471KAT1A](#) [1210GC821KAT1A](#)
[1210SC222MAT1A](#) [1210SC272KAT1A](#) [1210SC272MAT1A](#) [1808AA101KAT1A](#) [1808AA102KAT1A](#)

[1808AA330KAT1A](#) [1808AA331KAT1A](#) [1808AA331KAT2A](#) [1808AA560JAT1A](#) [1808AA680KAT1A](#) [1808AC102KAT1A](#)
[1808AC103KAT1A](#) [1808AC103KBT1A](#) [1808AC103MAT1A](#) [1808AC152KAT1A](#) [1808AC153KA11A](#)
[1808AC153KAT1A](#) [1808AC153KAT3A](#) [1808AC153MAT1A](#) [1808AC153MAT3A](#) [1808AC202MAT1A](#)
[1808AC222KAT1A](#) [1808AC471KBT1A](#) [1808AC472KAT1A](#) [1808AC682KAT1A](#) [1808CC103KA11A](#)
[1808CC103KAT1A](#) [1808CC393KAT1A](#) [1808CC393MA11A](#) [1808CC393MAT1A](#) [1808CC472KAT1A](#)
[1808GA101JAT1A](#) [1808GA221JAT1A](#) [1808GA221JAT3A](#) [1808GA221KAT1A](#) [1808GA331KAT1A](#) [1808GC101KAT1A](#)
[1808GC102KAT1A](#) [1808GC102MAT1A](#) [1808GC152KA11A](#) [1808GC152KAT1A](#) [1808GC152KAT3A](#)
[1808GC152MAT1A](#)