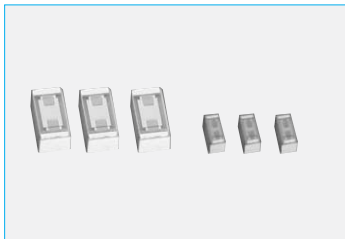


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HTC series, high-precision, thin-film chip capacitors. Now under development

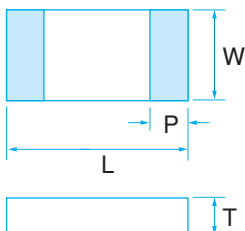


Tight tolerance of capacitance as time as $\pm 0.035\text{PF}$, and low equivalent series resistance. Chip sizes of 0402 and 0201 are available. Face-down use also is possible, leading to space savings. Our SMD components contribute to lead-free composition of electronics products.



SPECIFICATIONS

Mechanical



| Dimension | HTC0603 (0210) | HTC1005 (0402) |
|-----------|-----------------|-----------------|
| L | 0.60 ± 0.05 | 1.00 ± 0.10 |
| W | 0.30 ± 0.05 | 0.50 ± 0.10 |
| P | 0.07 ± 0.05 | 0.15 ± 0.10 |
| T | 0.28 ± 0.03 | 0.38 ± 0.10 |

Equivalent circuit



Electrical

| Type | HTC0603 | | | | HTC1005 | | |
|-------------------------------------------------|-------------------------------------|------------|-----------|---------|----------------------|-----------|----------|
| | Capacitance Range (pF) | 0.1~0.45 | 0.5~0.7 | 0.8~1.0 | 1.2~1.8 | 0.1~0.7 | 0.75~1.0 |
| Capacitance Value | 0.05pF step | 0.1pF step | | E-12 | 0.05pF step | | E-12 |
| Capacitance tolerance | $\pm 0.035\text{pF}$ | | $\pm 5\%$ | | $\pm 0.035\text{pF}$ | $\pm 5\%$ | |
| Temperature coefficient of capacitance (ppm/°C) | $0 \pm 60\text{ppm/}^\circ\text{C}$ | | | | | | |
| Rated Voltage (V) | 25V | | | | | | |
| Operating temperature range (°C) | $-40 \sim 85^\circ\text{C}$ | | | | | | |



PART NUMBER

HTC 0603 - 1E - R30 - J

