

## 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.

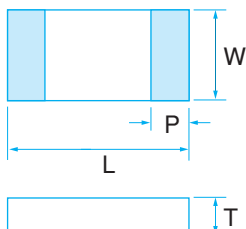
Face-down use also is possible, leading to space savings.

Our SMD components contribute to lead-free composition of electronics products.



### SPECIFICATIONS

#### Mechanical



| Dimension | HTC0603<br>(0210) | HTC1005<br>(0402) |
|-----------|-------------------|-------------------|
| L         | $0.60 \pm 0.05$   | $1.00 \pm 0.10$   |
| W         | $0.30 \pm 0.05$   | $0.50 \pm 0.10$   |
| P         | $0.07 \pm 0.05$   | $0.15 \pm 0.10$   |
| T         | $0.28 \pm 0.03$   | $0.38 \pm 0.10$   |

#### 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 | 1.2~10 |
| Capacitance Value                              | 0.05pF step | 0.1pF step |         | E-12    | 0.05pF step |          | E-12   |
| Capacitance tolerance                          | ±0.035pF    |            | ±5%     |         | ±0.035pF    | ±5%      |        |
| Temperature coefficient of capacitance(ppm/°C) | 0±60ppm/°C  |            |         |         |             |          |        |
| Rated Voltage (V)                              | 25V         |            |         |         |             |          |        |
| Operating temperature range(°C)                | -40~85°C    |            |         |         |             |          |        |



### PART NUMBER

**HTC 0603 - 1E - R30 - J**

Tolerance of capacitance : J( $\pm 5\%$ ), T35( $\pm 0.035\text{pF}$ )

Capacitance : R30(0.30pF)

Rated Voltage : 1E(25V)

Dimensions

Part Code