



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



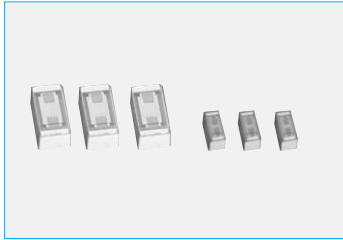
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# HTC series, high-precision, thin-film chip capacitors. Now under development

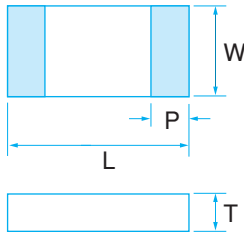


Tight tolerance of capacitance as time as  $\pm 0.035\text{PF}$ , and low equivalent series resistance. Chip sizes of 0402 and 0201 are available. Face-down use also is possible, leading to space savings. Our SMD components contribute to lead-free composition of electronics products.



## SPECIFICATIONS

### Mechanical



Dimension	HTC0603 (0210)	HTC1005 (0402)
L	$0.60 \pm 0.05$	$1.00 \pm 0.10$
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
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

