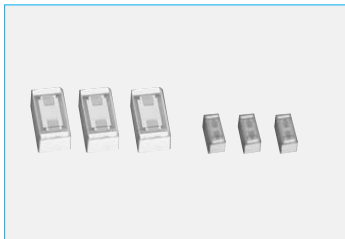




**THE DATASHEET OF
HTC0603-1E-R45-T35-L5**





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

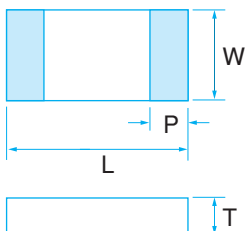


Tight tolerance of capacitance as time as $\pm 0.035\text{PF}$, and low equivalent series resistance. Chip sizes of 0402 and 0201 are available. Face-down use also is possible, leading to space savings. Our SMD components contribute to lead-free composition of electronics products.



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



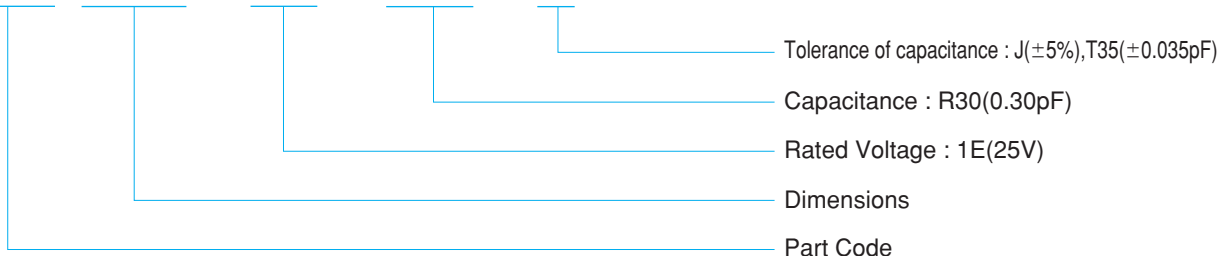
Electrical

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



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