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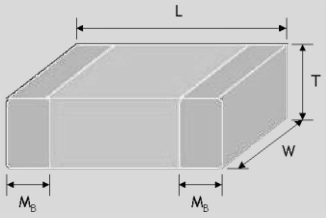
HLC CHIP MULTILAYER CERAMIC CAPACITORS
General Purpose Series (4V to 4000V)

HOW TO ORDER

HLC	1206	X7R	104	K	500	N	-
↓	↓	↓	↓	↓	↓	↓	↓
Type	Size	Dielectric	Capacitance	Tolerance	Rated voltage	Termination	Additional characters may be added for special requirements
HLC	Inch (mm) 0201 (0603) 0402 (1005) 0603 (1608) 0805 (2012) 1206 (3216) 1210 (3225) 1808 (4520) 1812 (4532) 1825 (4563) 2211 (5728) 2220 (5750) 2225 (5763)	NPO X7R Y5V X5R	Two significant digits followed by no. of zeros. And R is in place of decimal point. eg.: 0R5=0.5pF 1R0=1.0pF 104=10x104 =100nF	B=±0.1pF C=±0.25pF D=±0.5pF F=±1% G=±2% J=±5% K=±10% M=±20% Z=-20/+80%	Two significant digits followed by no. of zeros. And R is in place of decimal point. 4R0=4 VDC 6R3=6.3 VDC 100=10 VDC 160=16 VDC 250=25 VDC 500=50 VDC 101=100 VDC 102=1000 VDC 202= 2000 VDC	N=Cu/Ni/Sn	

The Outlines and External Dimensions of Capacitors



Size Inch (mm)	L (mm)	W (mm)	T (mm)/Symbol		Soldering Method *	M_B (mm)
01R5 (0402)	0.4±0.02	0.2±0.02	0.2±0.02	V	R	0.10±0.03
0201 (0603)	0.6±0.03	0.3±0.03	0.3±0.03	L	R	0.15±0.05
	0.6±0.05 #2	0.3±0.05 #2	0.3±0.05 #2			
	0.6±0.09 #3	0.3±0.09 #3	0.3±0.09 #3			0.15+0.1/-0.05
0402 (1005)	1.00±0.05	0.50±0.05	0.50±0.05	N	R	0.25 +0.05/-0.10
			0.50+0.02/-0.05	Q	R	
	1.00±0.20	0.50±0.20	0.5±0.20	E	R	
0603 (1608)	1.60±0.10	0.80±0.10	0.80±0.07	S	R / W	0.40±0.15
	1.60+0.15/-0.10	0.80+0.15/-0.10	0.50±0.10	H	R / W	
			0.80+0.15/-0.10	X	R / W	
	1.60±0.20 #1	0.80±0.20 #1	0.8±0.20 #1			
0805 (2012)	2.00±0.15	1.25±0.10	0.50±0.10	H	R / W	0.50±0.20
			0.60±0.10	A	R / W	
			0.80±0.10	B	R / W	
			1.25±0.10	D	R	
	2.00±0.20	1.25±0.20	0.85±0.10	T	R / W	
			1.25±0.20	I	R	
1206 (3216)	3.20±0.15	1.60±0.15	0.80±0.10	B	R / W	0.60±0.20 (0.5±0.25)***
			0.95±0.10	C	R	
			1.25±0.10	D	R	
	3.20±0.20		1.15±0.15	J	R	
		1.60±0.20	1.60±0.20	G	R	
			0.85±0.10	T	R / W	
	3.20 +0.30/-0.10	1.60 +0.30/-0.10	1.60+0.30/-0.10	P	R	
1210 (3225)	3.20±0.30	2.50±0.20	0.95±0.10	C	R	0.75±0.25
			0.85±0.10	T	R	
			1.25±0.10	D	R	
	3.20±0.40	2.50±0.30	1.60±0.20	G	R	
			2.00±0.20	K	R	
			2.50±0.30	M	R	
	3.20±0.60 #4	2.50±0.50 #4	2.50±0.50 #4			
1808 (4520)	4.50±0.40 (4.5+0.5/-0.3)**	2.03±0.25	1.25±0.10	D	R	0.75±0.25 (0.5±0.25)***
			1.40±0.15	F	R	
			1.60±0.20	G	R	
			2.00±0.20	K	R	
1812 (4532)	4.50±0.40 (4.5+0.5/-0.3)**	3.20±0.30	1.25±0.10	D	R	0.75±0.25 (0.5±0.25)***
			1.60±0.20	G	R	
			2.00±0.20	K	R	
		3.20±0.40	2.50±0.30	M	R	
			2.80±0.30	U	R	
1825 (4563)	4.60±0.50	6.30±0.40	1.60±0.20 (G) 2.00±0.20 (K) 2.50±0.30 (M) 2.80±0.30 (U)		R	≧0.26
2211 (5728)	5.70±0.50	2.80±0.30			R	≧0.30
2220 (5750)	5.70±0.50	5.00±0.40			R	≧0.30
2225 (5763)	5.70±0.50	6.30±0.40			R	≧0.30

* R = Reflow soldering process ; W = Wave soldering process.
** For 1808_200V ~3kV, 1812_200V~3kV
*** For 1206_1000V ~3kV,1808_200V ~3kV, 1812_200V~3kV
#1 : For0603/Cap≧10μF or 0603(≦6.3V)/Cap≧4.7μ For 0603(>10V)/Cap>1μF products.
#2 : For 0201/Cap≧0.68μF products.
#3 : For 0201/Cap ≧1μF products.
#4 : For 1210(100V)/ Cap>1μ F or 1210(250V)/Cap>0.47μ F or 1210(400V~630V)/Cap>0.22μ F.