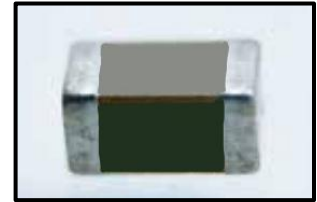


### ≠ Features

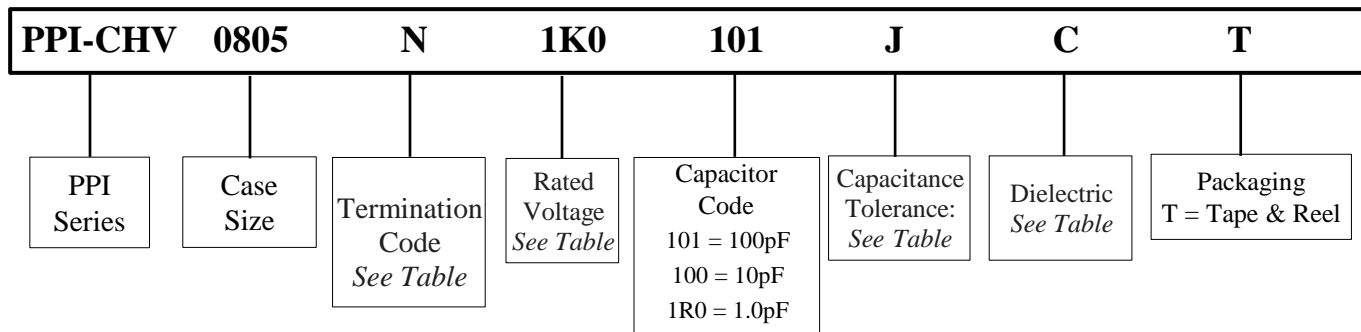
- Excellent volumetric efficiency and stability of capacitance with temperature
- High voltage capacitors
- Special internal electrode design for high voltage rating
- Surface mount suitable for wave and reflow soldering
- High Reliability
- RoHS Compliant

### ≠ Applications

- LAN/WLAN interface
- Back-lighting inverter, DC-DC converters
- Ballast, Modems and Power Supplies



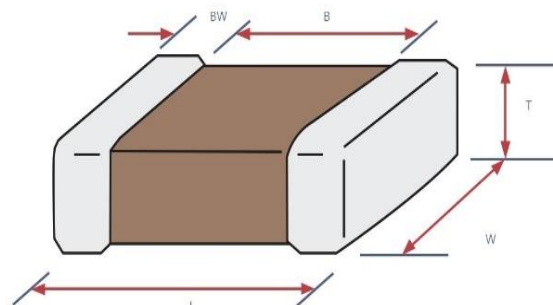
### ≠ Part Numbering



### ≠ Dimensions (mm)

Dimensions (mm)					
Size	L	W	T	B (min)	BW (min)
<b>0805</b>	2.00 ± 0.20	1.25 ± 0.20	*	0.70	0.20

\* See Capacitance Range charts on following pages



≠ Terminations

Code	Description
F	Silver Palladium
N	Nickel Barrier
A	High Leach Resistant Silver Palladium

≠ Rated Voltages

Code	Voltage
250	250V
500	500V
1K0	1KV

≠ Capacitance Codes

Cap Code	Value	Cap Code	Value	Cap Code	Value
1R0	1.0pF	101	100pF	103	10nF
100	10pF	102	1.0nF	104	100nF

≠ Capacitance Tolerances

Code	B	C	F	G	J	K	M
Tol.	±0.1pF	±0.25pF	±1%	±2%	±5%	±10%	±20%

≠ Dielectric Codes

Code	C	X
	COG	X7R

≠ Performance

Dielectric Classification	C = COG / NP0 (Ultra Stable)	X = X7R (Stable)
Operating Temperature	-55°C to 125°C	-55°C to 125°C
Rated Voltage	250V – 500V	250V – 1000V
Temperature Coefficient	≤±30ppmi/°C, -55°C ~+125°C (EIA Class I)	≤±15ppmi/°C, -55°C ~+125°C (EIA Class II)
Dissipation Factor	NP0: Q>1000	X7R: D.F. ≤2.5%
Insulation Resistance	10GΩ or 500/CΩ whichever is smaller	
Aging	NP0: 0%	X7R: Typically, 1.0% per decade of time
Dielectric Strength	100 ≤ V < 500V, 200% Rated Voltage 500 ≤ V < 1000V, 150% Rated Voltage 1000 ≤ V, 120% Rated Voltage	



**± PPI-CHV SERIES: 0805**

Dielectric		COG		X7R		
T (max)		1.45	1.1	1.1	1.1	1.1
Rated Voltage		250	500	250	500	1000
Cap Value (pF)	Code					
1.0pF	1R0					
1.3pF	1R3					
1.5pF	1R5					
1.8pF	1R8					
2.0pF	2R0					
2.2pF	2R2					
2.4pF	2R4					
2.5pF	2R5					
2.7pF	2R7					
2.0pF	3R0					
3.3pF	3R3					
3.6pF	3R6					
3.9pF	3R9					
4.0pF	4R0					
4.7pF	4R7					
5.0pF	5R0					
5.1pF	5R1					
5.6pF	5R6					
6.0pF	6R0					
6.8pF	6R8					
7.0pF	7R0					
7.5pF	7R5					
8.0pF	8R0					
8.2pF	8R2					
9.0pF	9R0					
9.1pF	9R1					
10	100					
12	120					
13	130					
15	150					
16	160					
18	180					
20	200					
22	220					
24	240					
27	270					
30	300					
33	330					
36	360					
39	390					
43	430					
47	470					
51	510					
56	560					
62	620					
68	680					
75	750					
82	820					
91	910					



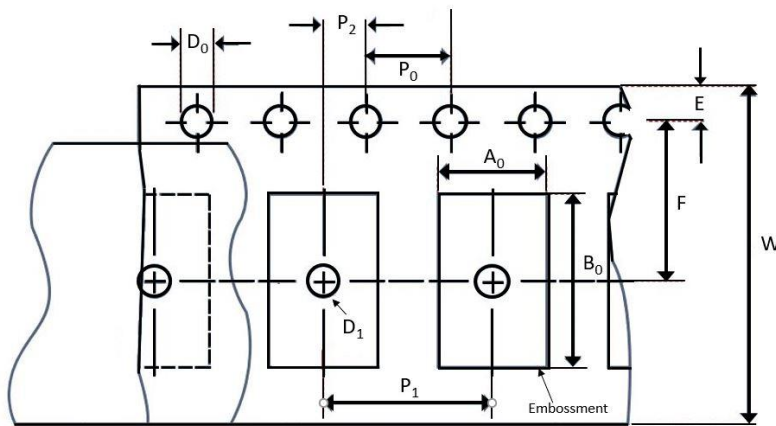
**± PPI-CHV SERIES: 0805**

Dielectric		COG		X7R		
T (max)		1.45	1.1	1.1	1.1	1.1
Rated Voltage		250	500	250	500	1000
Cap Value (pF)	Code					
100	101					
120	121					
130	131					
150	151					
160	161					
180	181					
200	201					
220	221					
240	241					
270	271					
300	301					
330	331					
360	361					
390	391					
430	431					
470	471					
510	511					
560	561					
621	621					
680	681					
750	751					
820	821					
910	911					
1.0nF	102					
1.2	122					
1.3	132					
1.5	152					
1.6	162					
1.8	182					
2.0	202					
2.2	222					
2.7	272					
3.3	332					
3.9	392					
4.7	472					
5.6	562					
6.8	682					
8.2	822					
10	103					
12	123					
15	153					
18	183					
22	223					
27	273					
33	333					
39	393					
47	473					
56	563					
68	683					

≠ **Packaging: Cardboard Carrier Tape**

Size	Qty per 7" Reel
<b>0805</b>	4K

≠ **Tape & Reel Specifications**



Unit: mm

Size	W	$P_0$	$P_1$	$P_2$	$D_0$	$D_1$	E	F
<b>0805</b>	$8.00 \pm 0.30$	$4.00 \pm 0.10$	$4.00 \pm 0.10$	$2.00 \pm 0.05$	$1.55 \pm 0.10$	*	$1.75 \pm 0.10$	$3.50 \pm 0.05$

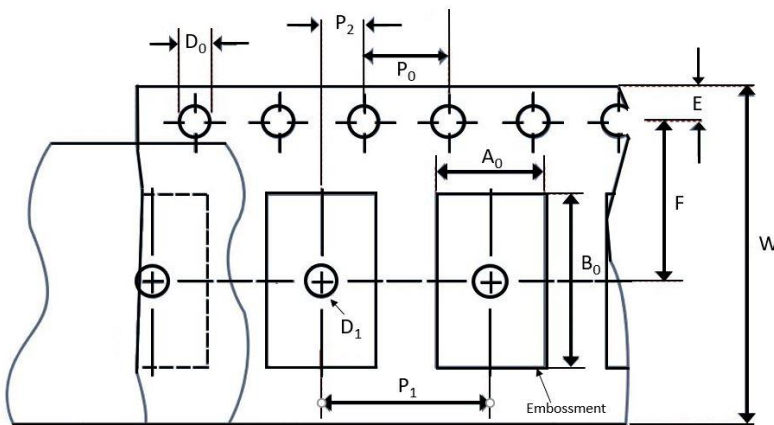
$A_0 B_0$

- Determined by component size to minimize rotation.
- The component cannot rotate more than  $20^\circ$  within the determined cavity.

≠ **Packaging: Embossed Plastic Carrier Tape**

Size	Qty per 7" Reel	Qty 10/13" Reel
<b>0805</b>	2K, 3K	10K

≠ **Tape & Reel Specifications**



Unit: mm

Size	W	$P_0$	$P_1$	$P_2$	$D_0$	$D_1$	E	F
0805	$8.00 \pm 0.20$	$4.00 \pm 0.10$	$2.00 \pm 0.05$	$2.00 \pm 0.05$	$1.50 \pm 0.10$	$1.00 \pm 0.10$	$1.75 \pm 0.10$	$3.50 \pm 0.05$

$A_0$   $B_0$

- Determined by component size to minimize rotation.
- The component cannot rotate more than  $20^\circ$  within the determined cavity.