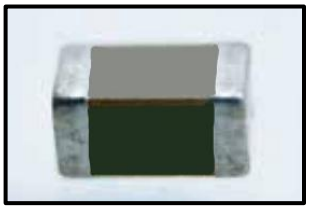
CHV Series

PPI-CHV1825



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

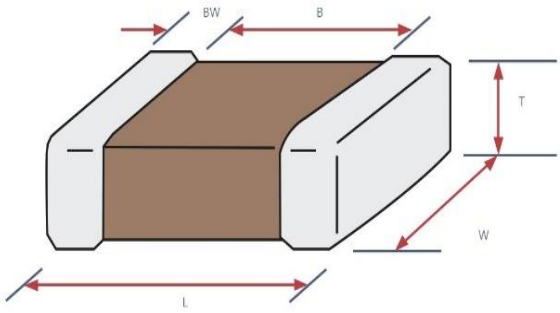
Part Numbering

PPI-CHV	1825	N	2K0	330	J	C	T
PPI Series	Case Size	Termination Code *See Table*	Rated Voltage *See Table*	Capacitor Code 101 = 100pF 100 = 10pF 1R0 = 1.0pF	Capacitance Tolerance: *See Table*	Dielectric *See Table*	Packaging T = Tape & Reel

Dimensions (mm)

Dimensions (mm)					
Size	**L**	**W**	**T**	**B (min)**	**BW (min)**
1825	4.60 ± 0.30	6.25 ± 0.40	*	2.50	0.30

** See Capacitance Range charts on following pages*



Please note that the contents of this document are subject to change at any time at PPI's sole discretion. The most up-to-date version of this document is available at www.passiveplus.com

CHV Series

PPI-CHV1825

Terminations

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

Rated Voltages

Code	Voltage	Code	Voltage	Code	Voltage
250	250V	1K5	1.5KV	3K0	3KV
500	500V	2K0	2KV	4K0	4KV
630	630V	2K5	2.5KV	5K0	5KV
1K0	1KV				

Capacitance Codes

Cap Code	Value	Cap Code	Value	Cap Code	Value
330	33pF	**102**	1.0nF	**104**	0.1uF
101	100pF	**103**	10nF	**105**	1.0uF

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 – 3000V	250V – 5000V
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: 1825

Dielectric		COG								X7R						
T (max)		1.8	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.0	1.8	2.2	2.2	2.6	2.6	2.7
Rated Voltage		250	500	630	1000	1500	2000	2500	3000	250	500	1000	2000	3000	4000	5000
Cap Value	Code															
2.0pF	2R0															
3.3pF	3R3															
3.9pF	3R9															
5.0pF	5R0															
8.2	8R2															
10	100															
12	120															
15	150															
18	180															
22	220															
27	270															
33	330															
39	390															
47	470															
56	560															
68	680															
82	820															
100	101															
120	121															
150	151															
180	181															
220	221															
270	271															
330	331															
390	391															
470	471															
560	561															
680	681															
820	821															

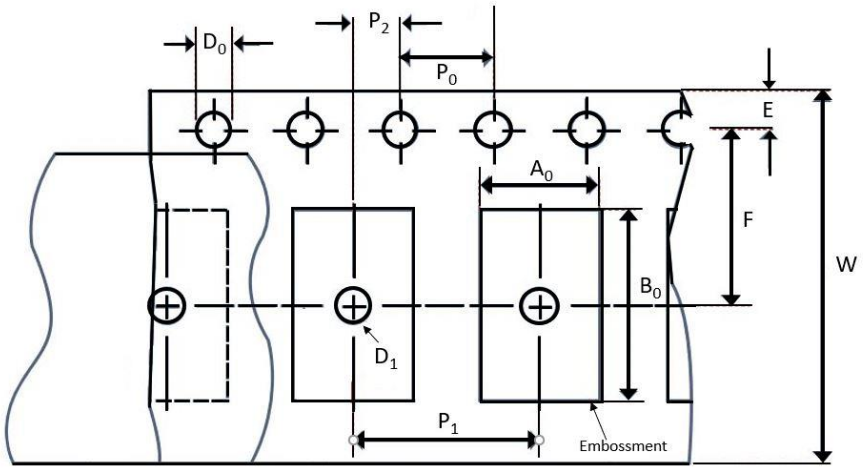
PPI-CHV SERIES: 1825

Dielectric		COG								X7R						
T (max)		1.8	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.0	1.8	2.2	2.2	2.6	2.6	2.7
Rated Voltage		250	500	630	1000	1500	2000	2500	3000	250	500	1000	2000	3000	4000	5000
Cap Value	Code															
1.0nF	102	■	■	■	■	■	■	■		■	■	■	■	■	■	■
1.2	122	■	■	■	■	■	■			■	■	■	■	■		■
1.5	152	■	■	■	■	■	■			■	■	■	■	■		■
1.8	182	■	■	■	■	■	■			■	■	■	■	■		■
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									■	■	■				
82	823									■	■	■				
100	104									■	■	■				
124	124									■	■					
154	154									■	■					
184	184									■	■					
224	224									■	■					
274	274									■	■					
334	334									■	■					
394	394									■	■					
474	474									■	■					
564	564									■	■					
684	684									■	■					
824	824									■	■					
1.0uF	105									■	■					
2.2	225															

Packaging: Embossed Plastic Carrier Tape

Size	*Qty per 7" Reel*	*Qty 10/13" Reel*
1825	500, 1000	2K

Tape & Reel Specifications



Unit: mm

Size	W	P_0	P_1	P_2	Do	D_1	E	F
1825	12.00 ± 0.30	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.05	1.50 ± 0.10	1.00 ± 0.10	1.75 ± 0.10	5.50 ± 0.05

A_0 B_0

- Determined by component size to minimize rotation.
- The component cannot rotate more than 20° within the determined cavity.