

Stacked PPS Film Capacitors - High Grade

Stacked metallized PPS film as dielectric with simple mold-less construction

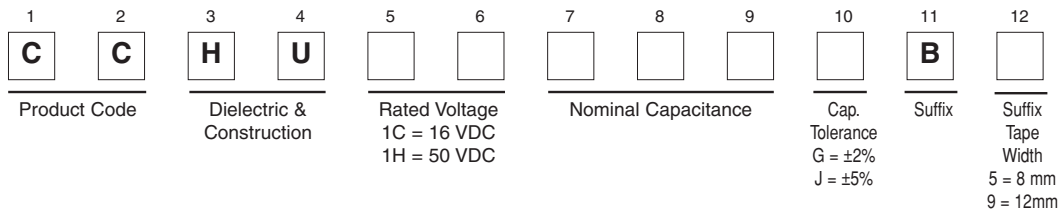
FEATURES

- Small in size (minimum size 2.0 x 1.25mm)
- 85°C, 85% RH, W.V. x 1.0 for 500 hours
- Applicable for both flow and reflow soldering

RECOMMENDED APPLICATIONS

- Time-constant
- Filtering
- Oscillation and resonance

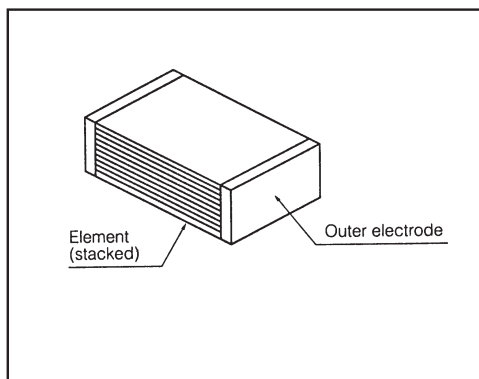
EXPLANATION OF PART NUMBERS



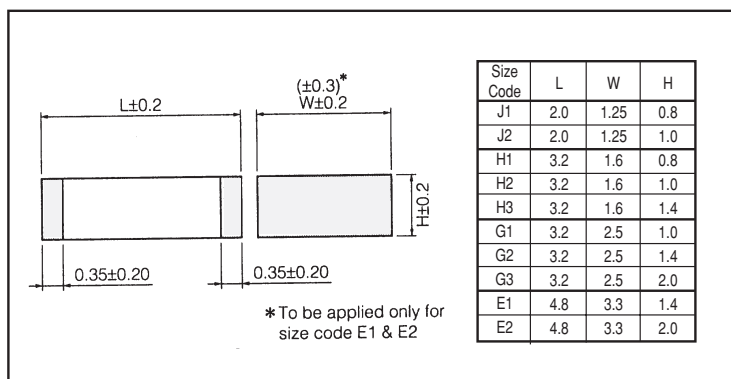
SPECIFICATIONS

Operating Temperature Range	-55 to +125°C
Rated Voltage	16 VDC, 50 VDC
Capacitance Range	0.0001 to 0.1µF (E12)
Capacitance Tolerance	±2% (G), ±5% (J)
Withstand Voltage	Between terminals: Rated voltage (VDC) x 175% 1 to 5 s
Dissipation Factor	≤ 0.6% (20°C, 1kHz)
Insulation Resistance	16 VDC: ≥3000 MΩ (20°C, 10VDC 60 s) 50 VDC: ≥3000 MΩ (20°C, 50VDC 60 s)
Soldering Conditions	Flow soldering: 260°C max. 5 sec max. Reflow soldering: 260°C max. and 30 sec max. at more than 230°C (Temperature at capacitor surface)

CONSTRUCTION



DIMENSIONS IN MM (not to scale)



Stacked PPS Film Chip Capacitors - High Grade

RATING, DIMENSIONS & QUANTITY/REEL

Cap. μ F	Rating Voltage 16 VDC						Rating Voltage 50 VDC									
	Part No.	Dimensions			Code	Qty.	Part No.	Dimensions			Code	Qty.				
		L	W	H				L	W	H						
0.0001	Please use 50 VDC rating for these values	CCHU1H101□B5	2.0	1.25	0.8	J1	CCHU1H101□B5	2.0	1.25	0.8	J1	3000				
0.00012			CCHU1H121□B5	2.0	1.25	0.8		J1	CCHU1H121□B5	2.0	1.25		0.8	J1		
0.00015			CCHU1H151□B5	2.0	1.25	0.8		J1	CCHU1H151□B5	2.0	1.25		0.8	J1		
0.00018			CCHU1H181□B5	2.0	1.25	0.8		J1	CCHU1H181□B5	2.0	1.25		0.8	J1		
0.00022			CCHU1H221□B5	2.0	1.25	0.8		J1	CCHU1H221□B5	2.0	1.25		0.8	J1		
0.00027			CCHU1H271□B5	2.0	1.25	0.8		J1	CCHU1H271□B5	2.0	1.25		0.8	J1		
0.00033			CCHU1H331□B5	2.0	1.25	0.8		J1	CCHU1H331□B5	2.0	1.25		0.8	J1		
0.00039			CCHU1H391□B5	2.0	1.25	0.8		J1	CCHU1H391□B5	2.0	1.25		0.8	J1		
0.00047			CCHU1H471□B5	2.0	1.25	0.8		J1	CCHU1H471□B5	2.0	1.25		0.8	J1		
0.00056			CCHU1H561□B5	2.0	1.25	0.8		J1	CCHU1H561□B5	2.0	1.25		0.8	J1		
0.00068			CCHU1H681□B5	2.0	1.25	0.8		J1	CCHU1H681□B5	2.0	1.25		0.8	J1		
0.00082			CCHU1H821□B5	2.0	1.25	0.8		J1	CCHU1H821□B5	2.0	1.25		0.8	J1		
0.001			CCHU1H102□B5	2.0	1.25	0.8		J1	CCHU1H102□B5	2.0	1.25		0.8	J1		
0.0012			CCHU1H122□B5	2.0	1.25	0.8		J1	CCHU1H122□B5	2.0	1.25		0.8	J1		
0.0015			CCHU1H152□B5	2.0	1.25	0.8		J1	CCHU1H152□B5	2.0	1.25		0.8	J1		
0.0018			CCHU1H182□B5	2.0	1.25	0.8		J1	CCHU1H182□B5	2.0	1.25		0.8	J1		
0.0022			CCHU1H222□B5	2.0	1.25	0.8		J1	CCHU1H222□B5	2.0	1.25		0.8	J1		
0.0027			CCHU1H272□B5	2.0	1.25	0.8		J1	CCHU1H272□B5	2.0	1.25		0.8	J1		
0.0033			CCHU1C332□B5	2.0	1.25	0.8		J1	3000	CCHU1H332□B5	3.2		1.6	0.8	H1	2000
0.0039			CCHU1C392□B5	2.0	1.25	0.8		J1		CCHU1H392□B5	3.2		1.6	0.8	H1	
0.0047	CCHU1C472□B5	2.0	1.25	0.8	J1	CCHU1H472□B5	3.2	1.6		0.8	H1					
0.0056	CCHU1C562□B5	2.0	1.25	0.8	J1	CCHU1H562□B5	3.2	1.6		0.8	H1					
0.0068	CCHU1C682□B5	2.0	1.25	0.8	J1	CCHU1H682□B5	3.2	1.6		0.8	H1					
0.0082	CCHU1C822□B5	2.0	1.25	1.0	J2	CCHU1H822□B5	3.2	1.6		1.0	H2					
0.01	CCHU1C103□B5	2.0	1.25	1.0	J2	CCHU1H103□B5	3.2	1.6		1.0	H2					
0.012	CCHU1C123□B5	3.2	1.6	0.8	H1	CCHU1H123□B5	3.2	2.5		1.0	G1					
0.015	CCHU1C153□B5	3.2	1.6	0.8	H1	CCHU1H153□B5	3.2	2.5		1.0	G1					
0.018	CCHU1C183□B5	3.2	1.6	0.8	H1	CCHU1H183□B5	3.2	2.5		1.4	G2					
0.022	CCHU1C223□B5	3.2	1.6	0.8	H1	CCHU1H223□B5	3.2	2.5		1.4	G2					
0.027	CCHU1C273□B5	3.2	1.6	1.0	H2	CCHU1H273□B5	3.2	2.5		1.4	G2					
0.033	CCHU1C333□B5	3.2	1.6	1.0	H2	CCHU1H333□B5	3.2	2.5		2.0	G3					
0.039	CCHU1C393□B5	3.2	1.6	1.4	H3	CCHU1H393□B5	3.2	2.5		2.0	G3					
0.047	CCHU1C473□B5	3.2	1.6	1.4	H3	CCHU1H473□B5	4.8	3.3		1.4	E1					
0.056	CCHU1C563□B5	3.2	2.5	1.4	G2	CCHU1H563□B5	4.8	3.3		1.4	E1					
0.068	CCHU1C683□B5	3.2	2.5	1.4	G2	CCHU1H683□B5	4.8	3.3		1.4	E1					
0.082	CCHU1C823□B5	3.2	2.5	2.0	G3	CCHU1H823□B5	4.8	3.3		2.0	E2					
0.1	CCHU1C104□B5	3.2	2.5	2.0	G3	CCHU1H104□B5	4.8	3.3		2.0	E2					

↑ Capacitance Tolerance Code G, J ↓

EXAMPLE FOR LAND DIMENSIONS IN MM

The diagram shows a top-down view of a capacitor land. It consists of two rectangular electrodes separated by a gap. Dimension A is the width of the gap between the electrodes. Dimension B is the total width of the land, including the electrodes and the gap. Dimension C is the height of the land. The electrodes are labeled 'Electrode' and the gap is labeled 'Land'.

Size Code	Land Dimensions					
	Flow Soldering			Reflow Soldering		
	A	B	C	A	B	C
J1	1.0	2.7	1.1	1.0	2.7	1.1
J2	1.0	2.7	1.1	1.0	2.7	1.1
H1	2.2	3.8	1.4	2.2	3.8	1.4
H2	2.2	3.8	1.4	2.2	3.8	1.4
H3	2.2	3.8	1.4	2.2	3.8	1.4
G1	2.2	3.8	2.3	2.2	3.8	2.3
G2	2.2	3.8	2.3	2.2	3.8	2.3
G3	2.2	3.8	2.3	2.2	3.8	2.3
E1	2.6	6.6	3.0	2.6	6.6	3.0
E2	2.6	6.6	3.0	2.6	6.6	3.0