## Film Chip Capacitor

# Type: ECHU(B)

Stacked metallized PPS film as dielectric with simple mold-less construction ■Features • Small in size (minimum size 2.0×1.25mm) ◆ 85°C, 85%RH, W.V. × 1.0 for 500 hours Applicable for both flow and reflow soldering ■Recommended Applications Time-constant Filtering Oscillation and resonance ■Explanation of Part Numbers Ε C Н U В Product code Dielectric & Rated voltage Capacitance Tol. Suffix construction 16VDC ±2% Tape width 50VDC 8mm 9 12mm ■Specifications Category temp. range 5 tc +125°C 16VL C, 50VDC Rated voltage 0.0001 to 0.1 µF (712) Capacitance range Capacitance tolerance -2%(G), ±5%(J) Between terminals Rated volt. (VDC)×175% 1 to 5s Withstand voltage ≦0.0% (20°C, 1KHz) Dissipation factor 16 /CC = 3000MΩ (20°C, 10VDC 60s) Insulation resistang ΣOVLS: ≦3000MΩ (20°C, 50VDC 60s) Flow soldering: 260°C max. 5sec max. Soldering condition Reflow soldering : 260°C max. and 30sec max. at more than 230°C (Temp. at cap. surface) ■Construction ■Dimensions in mm (not to scale) (±0.3) **★** W±0.2 Н W Size code L±0.2 0.8 2.0 1.25 2.0 1.25 1.0 Н1 3.2 0.8 1.6 H2 3.2 1.6 1.0 НЗ 3.2 1.6 1.4 G1 3.2 2.5 1.0  $0.35 \pm 0.20$  $0.35 \pm 0.20$ 2.5 G2 3.2 1.4 Outer electrode Element G3 3.2 2.5 2.0 ★ To be applied only for size code E1 & E2 3.3 E1 4.8 1.4 E2 4.8 3.3

# ■Taping Specification for Automatic Insertion(Mounting)

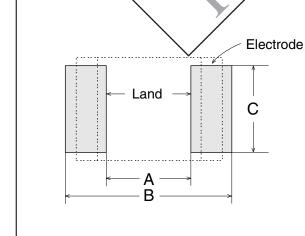
Refer to the PDF file of taping specifications

#### ■Rating, Dimensions & Quantity/Reel

	Rated volt. 16VDC						Rated volt. 50VDC									
Cap. (µF)	Dimensions (mm)							Dimensions (mm)				Oll				
	Part No.	L	_   W   H		Code	Q'ty	Part No.	L	W	H	Code	Q'ty				
0.0001							ECHU1H101 B5	2.0	1.25	0.8	J1					
0.00012							ECHU1H121 B5	2.0	1.25	0.8	J1					
0.00015							ECHU1H151_B5	2.0	1.25	0.8	J1					
0.00018							ECHU1H181_B5	2.0	1.25	0.8	J1					
0.00022							ECHU1H221 B5	2.0	1.25	0.8	J1					
0.00027							ECHU1H271 B5	2.0	1.25	0.8	J1					
0.00033		ECHU1H331 B5	2.0	1.25	Ø A	V1										
0.00039		ECHU1H391_B5	2.0	1.25/	0.8	M										
0.00047	Please use 50VDC rating of ECHU(B)							ECHU1H471_B5	2.0	1/25	28	J1				
0.00056	1 10030 030 00000	ECHU1H561_B5	2.0	1.25	0.0	J1										
0.00068		ECHU1H681_B5	2,0	1.75	0.8	J1										
0.00082		ECHU1H821 B5	12.0	1.25	0.8	J1										
0.001							ECHU1H102 B5/	2.0	1.25	0.8	J1	3000				
0.0012							ECHU1H122 Z5	2.0	1.25	0.8	31					
0.0015							ECHU1H152	2.0	1.25	0.8	J1					
0.0018							ECHU1H122 E5	2.0	1.25	U.J	J1/					
0.0022							ECHU1/ 222 B5	2.0	1.25	0.8	<b>1</b>					
0.0027							ECHV1H2.7 F5	2.0	1.25	0.8	J1					
0.0033	ECHU1C332 B5	2.0	1.25	0.8	J1		EQHU: \1332 \bigsi B5	3.2	6	0,8	H1					
0.0039	ECHU1C392 B5	2.0	1.25	0.8	J1		F 24U HS 32 B5	3.2	1.6	0.8	H1					
0.0047	ECHU1C472_B5	2.0	1.25	0.8	J1		ECHUTH472 B5	3.2	.6/	0.8	H1					
0.0056	ECHU1C562_B5	2.0	1.25	0.8	J1		TCHU1H562 B5	3.2	1.6	0.8	H1	1				
0.0068	ECHU1C682_B5	2.0	1.25	0.8	J1 /		ECHU1H682 B5	3.2/	1.6	0.8	H1					
0.0082	ECHU1C822_B5	2.0	1.25	1.0	12		ECHU1H822 35	3/2	1.6	1.0	H2					
0.01	ECHU1C103_B5	2.0	1.25	1.0	/12	2 700	ECHU1H10. B5	3.2	1.6	1.0	H2					
0.012	ECHU1C123_B5	3.2	1.6	0.8/	LY	,	ECHU H123 B	3.2	2.5	1.0	G1					
0.015	ECHU1C153_B5	3.2	1.6	8.8	Н		ECHU1H 53 B5	3.2	2.5	1.0	G1					
0.018	ECHU1C183_B5	3.2	1.6	(8	H/1		ECHU1H188 B5	3.2	2.5	1.4	G2					
0.022	ECHU1C223_B5	3.2	1,6	0.0	H11		5CHU1H223 B5	3.2	2.5	1.4	G2	2000				
0.027	ECHU1C273 B5	3.2	1.0	7.0	H2		ECHUTH273 B5	3.2	2.5	1.4	G2					
0.033	ECHU1C333 B5	3.2	1.6	1.0	H2		ECHU1H333 B5	3.2	2.5	2.0	G3					
0.039	ECHU1C393 B5	13.2	16	1.4	НЗ		<b>E</b> CHU1H393□B5	3.2	2.5	2.0	G3					
0.047	ECHU1C473 B5/	3.2	1.6	1.4	FI3		ECHU1H473_B9	4.8	3.3	1.4	E1					
0.056	ECHU1C563	3.2	2.5	1.4	00	2000	ECHU1H563_B9	4.8	3.3	1.4	E1	1				
0.068	ECHU1C683 B5	3.2	2.5	1.4	G2	2,000	ECHU1H683_B9	4.8	3.3	1.4	E1	3000				
0.082	ECHU1C820 B5	3.2	2.5	2.0	0.3/	,	ECHU1H823 B9	4.8	3.3	2.0	E2	1				
0.1	ECHU1C 04 L 5	3.2	2.5	2.0	<b>Ø</b> 3		ECHU1H104 B9	4.8	3.3	2.0	E2					

- Capacitan : to erance code G, J

### ■Example for Land Dimensions (m. )



Code	Land dimensions									
	FI	ow solderir	ng	Reflow soldering						
	А	В	С	А	В	С				
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				
НЗ	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				