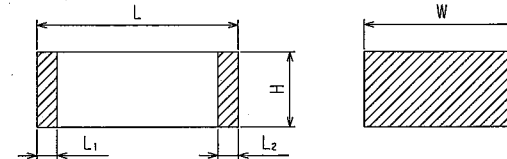
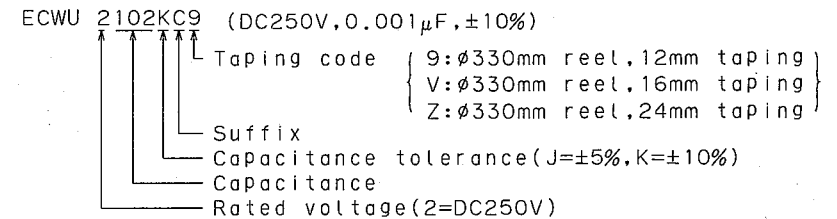


THIRD ANGLE PROJECTION

ITEM CODE	CAPACITANCE μF (*)	DIMENSIONS				TYPE
		L	W	H	L ₁ , L ₂	
△ ECWU 2102(C)C9	0.001 (102)	4.8±0.2	3.3±0.3	1.4±0.2	0.35±0.2	E ₁
△ # 2122(C)C9	0.0012 (122)	#	#	#	#	#
△ # 2152(C)C9	0.0015 (152)	#	#	#	#	#
△ # 2182(C)C9	0.0018 (182)	#	#	#	#	#
△ # 2222(C)C9	0.0022 (222)	#	#	#	#	#
△ # 2272(C)C9	0.0027 (272)	#	#	#	#	#
△ # 2332(C)C9	0.0033 (332)	#	#	#	#	#
△ # 2392(C)C9	0.0039 (392)	#	#	#	#	#
△ # 2472(C)C9	0.0047 (472)	#	#	#	#	#
△ # 2562(C)C9	0.0056 (562)	#	#	#	#	#
△ # 2682(C)C9	0.0068 (682)	#	#	#	#	#
△ # 2822(C)C9	0.0082 (822)	#	#	#	#	#
△ # 2103(C)C9	0.01 (103)	#	#	#	#	#
△ # 2123(C)C9	0.012 (123)	#	#	#	#	#
△ # 2153(C)C9	0.015 (153)	#	#	#	#	#
△ # 2183(C)C9	0.018 (183)	#	#	2.0±0.2	#	E ₂
△ # 2223(C)C9	0.022 (223)	#	#	#	#	#
△ # 2273(C)C9	0.027 (273)	#	#	2.4±0.2	#	E ₃₀
△ # 2333(C)C9	0.033 (333)	#	#	2.8±0.2	#	E ₃
△ # 2393(C)C9	0.039 (393)	6.0±0.2	4.1±0.3	2.0±0.2	#	D ₂
△ # 2473(C)C9	0.047 (473)	#	#	2.4±0.2	#	D ₃
△ # 2563(C)C9	0.056 (563)	#	#	2.8±0.2	#	D ₄
△ # 2683(C)C9	0.068 (683)	#	#	3.2±0.2	#	D ₅
△ # 2823(C)C9	0.082 (823)	#	5.0±0.4	3.2±0.3	#	B
△ # 2104(C)C9	0.1 (104)	#	#	3.8±0.3	#	#
△ # 2124(C)C9	0.12 (124)	△ #	△ #	△ 4.5±0.3	#	△ #
△ # 2154KCV	0.15 (154)	7.1±0.4	6.3±0.4	3.5±0.3	#	Y
△ # 2184KCV	0.18 (184)	#	#	4.1±0.3	#	#
△ # 2224KCV	0.22 (224)	#	#	5.1±0.3	#	#
△ # 2274KCV	0.27 (274)	9.8±0.5	#	3.9±0.3	#	V
△ # 2334KCV	0.33 (334)	#	#	4.8±0.3	#	#
△ # 2394KCV	0.39 (394)	#	8.0±0.4	4.4±0.3	#	U
△ # 2474KCV	0.47 (474)	#	#	5.3±0.3	#	#
△ # 2564KCZ	0.56 (564)	15.2±0.5	#	3.7±0.3	#	T
△ # 2684KCZ	0.68 (684)	#	#	4.4±0.3	#	#
△ # 2824KCZ	0.82 (824)	#	10.0±0.4	4.2±0.3	#	S
△ # 2105KCZ	1.0 (105)	#	#	5.1±0.3	#	#



ITEM CODE NUMBER STRUCTURE



CAPACITANCE (μF)	TOL.
0.001~0.12	± 5%(J), ±10%(K)
0.15 ~1.0	±10%(K)

ALTERATION		
ISSUE	DESCRIPTION	DATE
△	Alteration: (0.082, 0.1 μF) Taping Specification, Packing Specification, Packing Quantity Modification: (type Z-Y), (Reusable reel)	Dec. 22 1999
△	Addition: TOL. ±5%(0.001~0.068 μF)	Feb. 9 2000
△	Addition: TOL. ±5%(0.082~0.12 μF) Alteration: DIMENSIONS (0.12 μF)	Jun. 20 2000
△	Modification: (W ₁ =13.5→13.4) (W ₂ =17.5→17.4) (W ₁ =17.5±0.5→17.4±1.0) (W ₁ =25.5±0.5→25.4±1.0) Addition: (W ₂ =24.4±1.0) (W ₂ =29.4±1.0) (E=2.0±0.5)	Mar. 30 2001
△	Company name changed	Oct. 1 2004
△	Company name changed	Apr. 1 2005

Reference

DESIGN	<i>Id. Terasaki</i>
CHECKED	<i>C. Sasaki</i>
APPROVAL	<i>M. Nagaoaka</i>
ESTABLISHMENT	Jul. 13, 1999
TYPE NAME	ECWU 2*** (C)
NAME	METALLIZED PLASTIC FILM CHIP CAPACITOR
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	CW-H-901P(1/2)

CONSTRUCTION

The capacitor is non-inductive construction, stacked with metallized plastic film dielectric, and has two outer electrodes.

PROPERTIES

- Capacitance : See table at 1kHz
- Capacitance tolerance : ±5%(J), ±10%(K)
- Rated voltage : DC250V
- Withstand voltage : Rated voltage × 150% for 60s
- Insulation resistance : I.R ≥ 3,000 Ω when C ≤ 0.33 μF } at 20°C, 100VDC, for 60s
: C.R ≥ 1,000 Ω · F when C > 0.33 μF
- Dissipation factor : ≤ 1.0% at 1kHz, 20°C
- Category temperature range : from -55°C to +125°C (including temperature rise on unit surface)

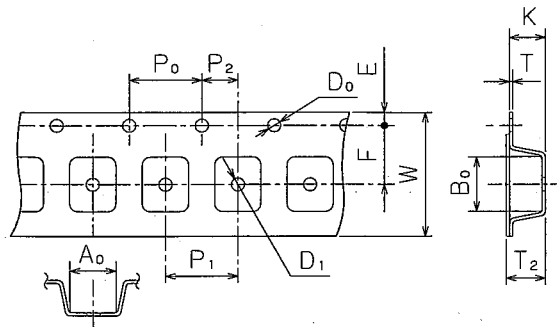
DO NOT SCALE DRAWING REVISIONS INDICATED BY Δ ALL DIMENSIONS ARE IN MILLIMETERS

Panasonic

Electronic Circuit Capacitor Business Unit,
Panasonic Electronic Devices Co., Ltd.

THIRD ANGLE PROJECTION

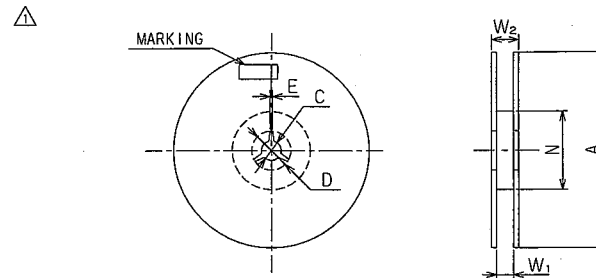
TAPING SPECIFICATION



TYPE	A ₀	B ₀	T	T ₂	K
E ₁	3.8 ± 0.1	5.1 ± 0.1	0.30 ± 0.05	2.0 ± 0.2	1.9 ± 0.1
E ₂	#	#	#	2.6 ± 0.2	2.5 ± 0.1
E ₃₀ , E ₃	#	#	#	3.4 ± 0.2	3.3 ± 0.1
D ₂	4.6 ± 0.1	6.3 ± 0.1	#	2.7 ± 0.2	2.6 ± 0.1
D ₃ , D ₄	#	#	#	3.5 ± 0.2	3.4 ± 0.1
D ₅	#	#	#	4.6 ± 0.2	4.5 ± 0.1
B	5.5 ± 0.1	#	#	5.1 ± 0.2	5.0 ± 0.1
Y	6.91 ± 0.1	8.43 ± 0.1	0.343 ± 0.013	5.685 ± 0.2	5.64 ± 0.1
V, U	8.94 ± 0.1	10.54 ± 0.1	#	5.795 ± 0.2	5.75 ± 0.1
T, S	10.80 ± 0.1	16.00 ± 0.1	0.355 ± 0.013	5.815 ± 0.2	5.77 ± 0.1

SYMBOL	DIMENSIONS			
	E ₁ , E ₂ , E ₃₀ , E ₃	D ₂ , D ₃ , D ₄ , D ₅ , B	Y, V, U	T, S
W	12.0 ± 0.3	12.0 ± 0.3	16.0 ± 0.3	24.0 ± 0.3
F	5.5 ± 0.05	5.5 ± 0.05	7.5 ± 0.1	11.5 ± 0.1
E	1.75 ± 0.1	1.75 ± 0.1	1.75 ± 0.1	1.75 ± 0.1
P ₁	8.0 ± 0.1	8.0 ± 0.1	12.0 ± 0.1	16.0 ± 0.1
P ₂	2.0 ± 0.05	2.0 ± 0.05	2.0 ± 0.1	2.0 ± 0.1
P ₀	4.0 ± 0.1	4.0 ± 0.1	4.0 ± 0.1	4.0 ± 0.1
∅D ₀	1.5 ± 0.1	1.5 ± 0.1	1.5 ± 0.1	1.5 ± 0.1
∅D ₁	1.5 ± 0.2	-	1.5 ± 0.25	1.5 ± 0.25

PACKING SPECIFICATION

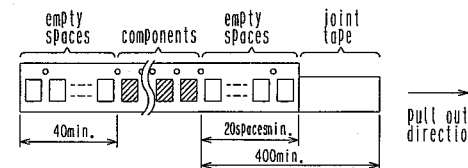


SYMBOL	DIMENSIONS		
	E ₁ , E ₂ , E ₃₀ , E ₃ , D ₂ , D ₃ , D ₄ , D ₅ , B	Y, V, U	T, S
A	330.0 ± 2.0	330.0 ± 2.0	330.0 ± 2.0
C	13.0 ± 0.2	13.0 ± 0.2	13.0 ± 0.2
D	21.0 ± 0.8	21.0 ± 0.8	21.0 ± 0.8
E	2.0 ± 0.5	2.0 ± 0.5	-
N	80.0 ± 1.0	80.0 ± 1.0	80.0 ± 1.0
W ₁	13.4 ± 1.0	17.4 ± 1.0	25.4 ± 1.0
W ₂	17.4 ± 1.0	24.4 ± 1.0	29.4 ± 1.0

PACKING QUANTITY

TYPE	REEL (pcs.)
E ₁ , E ₂ , D ₂	3,000
E ₃₀ , E ₃ , D ₃ , D ₄ , D ₅	2,000
B	1,500
Y, V, U	1,000
T, S	750

EMPTY SPACE AND JOINT TAPE



Reference

TYPE NAME
ECWU 2***()C()
DRAWING No.
CW-H-901P(2/2)

Panasonic Electronic Circuit Capacitor Business Unit,
Panasonic Electronic Devices Co., Ltd.