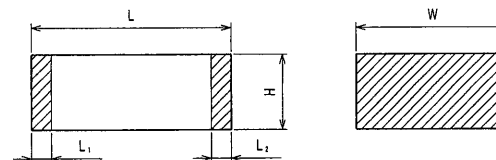


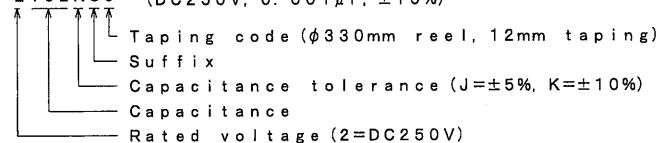
THIRD ANGLE PROJECTION

ITEM CODE	CAPACITANCE μ F (*)	DIMENSIONS				TYPE
		L	W	H	L ₁ , L ₂	
ECWU 2102 () C9	0.001 (102)	4.8±0.2	3.3±0.3	1.4±0.2	0.35±0.2	E ₁
" 2122 () C9	0.0012 (122)	"	"	"	"	"
" 2152 () C9	0.0015 (152)	"	"	"	"	"
" 2182 () C9	0.0018 (182)	"	"	"	"	"
" 2222 () C9	0.0022 (222)	"	"	"	"	"
" 2272 () C9	0.0027 (272)	"	"	"	"	"
" 2332 () C9	0.0033 (332)	"	"	"	"	"
" 2392 () C9	0.0039 (392)	"	"	"	"	"
" 2472 () C9	0.0047 (472)	"	"	"	"	"
" 2562 () C9	0.0056 (562)	"	"	"	"	"
" 2682 () C9	0.0068 (682)	"	"	"	"	"
" 2822 () C9	0.0082 (822)	"	"	"	"	"
" 2103 () C9	0.01 (103)	"	"	"	"	"
" 2123 () C9	0.012 (123)	"	"	"	"	"
" 2153 () C9	0.015 (153)	"	"	"	"	"
" 2183 () C9	0.018 (183)	"	"	2.0±0.2	"	E ₂
" 2223 () C9	0.022 (223)	"	"	"	"	"
" 2273 () C9	0.027 (273)	"	"	2.4±0.2	"	E ₃
" 2333 () C9	0.033 (333)	"	"	2.8±0.2	"	E ₃
" 2393 () C9	0.039 (393)	6.0±0.2	4.1±0.3	2.0±0.2	"	D ₂
" 2473 () C9	0.047 (473)	"	"	2.4±0.2	"	D ₃
" 2563 () C9	0.056 (563)	"	"	2.8±0.2	"	D ₄
" 2683 () C9	0.068 (683)	"	"	3.2±0.2	"	D ₅
" 2823 () C9	0.082 (823)	"	5.0±0.4	3.2±0.3	"	B
" 2104 () C9	0.1 (104)	"	"	3.8±0.3	"	"
" 2124 () C9	0.12 (124)	"	"	4.5±0.3	"	"

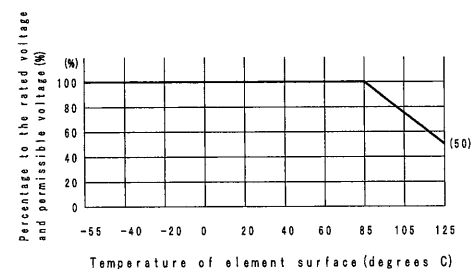
Capacitance tolerance (J or K)



ITEM CODE NUMBER STRUCTURE

ECWU 2102KC9 (DC250V, 0.001 μ F, $\pm$ 10%)

Derating of rated voltage to operating temperature



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 : $\pm$ 5% (J), $\pm$ 10% (K)
 Rated voltage : DC250V
 Withstand voltage : Rated voltage $\times$ 150% for 60s
 Insulation resistance : $\geq$ 3,000M Ω at 20°C, 100VDC, for 60s
 Dissipation factor : $\leq$ 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 A

ALL DIMENSIONS ARE IN MILLIMETERS

ALTERATION

ISSUE	DESCRIPTION	DATE
△	Company name changed	Apr. 1 2012
△	Company name changed	Apr. 1 2013
△	Company name changed	Apr. 1 2015

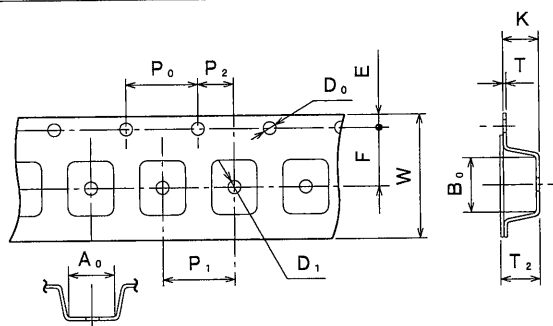
SPECIFICATIONS No.

Reference

DESIGN	M. Mameda
CHECKED	M. Yamaguchi
APPROVAL	Y. Takata
ESTABLISHMENT	Jun. 3. 2008
TYPE NAME	ECWU 2*** () C9
NAME	FILM CHIP CAPACITOR ECWU (C)
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	8004C-J-E (1/2)

Toyama-Matsue Plant
Device Solutions Business Division
Panasonic Corporation

TAPING SPECIFICATION



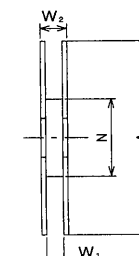
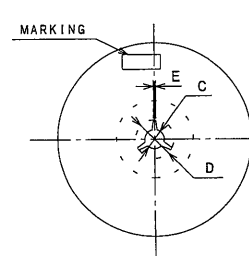
TYPE	A ₀	B ₀	T	T ₂	K
E ₁	3.8 ± 0.1	5.1 ± 0.1	0.30 ± 0.05	2.0 ± 0.2	1.9 ± 0.1
E ₂	"	"	"	2.6 ± 0.2	2.5 ± 0.1
E ₃ , E ₄	"	"	"	3.4 ± 0.2	3.3 ± 0.1
D ₂	4.6 ± 0.1	6.3 ± 0.1	"	2.7 ± 0.2	2.6 ± 0.1
D ₃ , D ₄	"	"	"	3.5 ± 0.2	3.4 ± 0.1
D ₅	"	"	"	4.6 ± 0.2	4.6 ± 0.1
B	5.5 ± 0.1	"	"	5.1 ± 0.2	5.0 ± 0.1

SYMBOL	DIMENSIONS	
	E ₁ , E ₂ , E ₃ , E ₄	D ₂ , D ₃ , D ₄ , D ₅ , B
W	12.0 ± 0.3	12.0 ± 0.3
F	5.5 ± 0.05	5.5 ± 0.05
E	1.75 ± 0.1	1.75 ± 0.1
P ₁	8.0 ± 0.1	8.0 ± 0.1
P ₂	2.0 ± 0.05	2.0 ± 0.05
P ₀	4.0 ± 0.1	4.0 ± 0.1
φD ₀	1.5 + ^{0.1} / ₀	1.5 + ^{0.1} / ₀
φD ₁	1.5 + ^{0.2} / ₀	-

PACKING QUANTITY

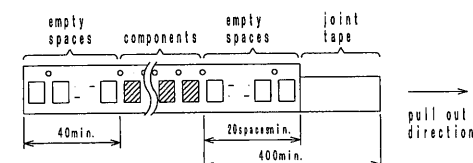
TYPE	REEL (pcs.)
E ₁ , E ₂ , D ₂	3,000
E ₃ , E ₄ , D ₃ , D ₄ , D ₅	2,000
B	1,500

PACKING SPECIFICATION



SYMBOL	DIMENSIONS	
	E ₁ , E ₂ , E ₃ , E ₄ , D ₂ , D ₃ , D ₄ , D ₅ , B	
A	330.0 ± 2.0	
C	13.0 ± 0.2	
D	21.0 ± 0.8	
E	2.0 ± 0.5	
N	80.0 ± 1.0	
W ₁	13.4 ± 1.0	
W ₂	17.4 ± 1.0	

EMPTY SPACE AND JOINT TAPE



Reference

NAME	FILM CHIP CAPACITOR ECWU (C)
TYPE NAME	ECWU 2*** () C9
DRAWING No.	8004C-J-E (2/2)

Toyama-Matsue Plant
Device Solutions Business Division
Panasonic Corporation