

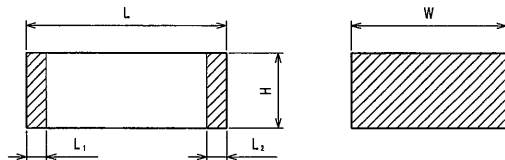
THIRD ANGLE PROJECTION

ITEM CODE	CAPACITANCE μF (*)	DIMENSIONS				TYPE
		L	W	H	L ₁ , L ₂	
ECHU 1103 () C9	0.01 (103)	4.8±0.2	3.3±0.3	1.4±0.2	0.35±0.2	E ₁
" 1123 () C9	0.012 (123)	"	"	"	"	"
" 1153 () C9	0.015 (153)	"	"	2.0±0.2	"	E ₂
" 1183 () C9	0.018 (183)	"	"	"	"	"
" 1223 () C9	0.022 (223)	"	"	2.4±0.2	"	E _{3a}
" 1273 () C9	0.027 (273)	"	"	2.8±0.2	"	E ₃
" 1333 () C9	0.033 (333)	6.0±0.2	4.1±0.3	1.8±0.2	"	D ₁
" 1393 () C9	0.039 (393)	"	"	2.0±0.2	"	D ₂
" 1473 () C9	0.047 (473)	"	"	2.4±0.2	"	D ₃
" 1563 () C9	0.056 (563)	"	"	2.8±0.2	"	D ₄
" 1683 () C9	0.068 (683)	"	"	3.2±0.2	"	D ₅
" 1823 () C9	0.082 (823)	7.1±0.4	5.0±0.4	2.8±0.3	"	Z
" 1104 () C9	0.1 (104)	"	"	3.0±0.3	"	"
" 1124 () C9	0.12 (124)	"	"	3.4±0.3	"	"
" 1154 () CV	0.15 (154)	"	6.3±0.4	"	"	Y
" 1184 () CV	0.18 (184)	"	"	4.0±0.3	"	"
" 1224 () CV	0.22 (224)	"	"	4.8±0.3	"	"

ITEM CODE NUMBER STRUCTURE

ECHU 1103JC9 (DC100V, 0.01 μF , $\pm 5\%$)

Taping code
 (9: $\phi 330$ mm reel, 12mm taping)
 (W: $\phi 330$ mm reel, 16mm taping)
 Suffix
 Capacitance tolerance (G= $\pm 2\%$, J= $\pm 5\%$)
 Capacitance (*) See table
 Rated voltage (1=DC100V)



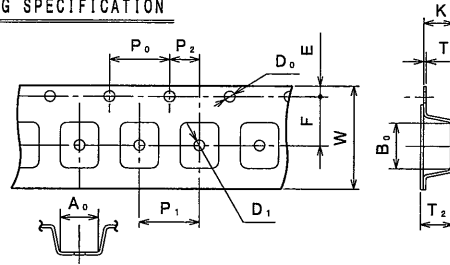
CONSTRUCTION

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 : $\pm 2\%$ (G), $\pm 5\%$ (J)
 Rated voltage : DC100V
 Withstand voltage : Rated voltage $\times 150\%$ for 60s
 Insulation resistance : $I.R \geq 3,000M\Omega$ at 20°C, DC100V, for 60s
 Dissipation factor : $\leq 0.6\%$ at 1kHz, 20°C
 Category temperature range : from -55°C to +105°C
 (including temperature rise on unit surface)

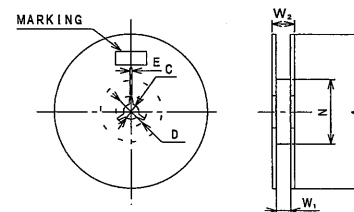
TAPING SPECIFICATION



TYPE	A ₂	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 _{3a} , E ₃	"	"	"	3.4±0.2	3.3±0.1
D 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
Z	5.5±0.1	7.5±0.1	"	4.7±0.2	4.6±0.1
Y	6.9±0.1	8.4±0.1	0.34±0.02	5.7±0.2	5.7±0.1

SYMBOL	DIMENSIONS		
	E ₁ , E ₂ , E _{3a} , E ₃	D ₁ , D ₂ , D ₃ , D ₄ , D ₅ , Z	Y
W	12.0 ±0.3	12.0 ±0.3	16.0 ±0.3
F	5.5 ±0.05	5.5 ±0.05	7.5 ±0.1
E	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
P ₂	2.0 ±0.05	2.0 ±0.05	2.0 ±0.1
P ₀	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1
ϕD_0	1.5 $^{+0.1}_{-0}$	1.5 $^{+0.1}_{-0}$	1.5 $^{+0.1}_{-0}$
ϕD_1	1.5 $^{+0.2}_{-0}$	-	1.5 $^{+0.25}_{-0}$

PACKING SPECIFICATION



SYMBOL	DIMENSIONS	
	E ₁ , E ₂ , E _{3a} , E ₃ , D ₁ , D ₂ , D ₃ , D ₄ , D ₅ , Z	Y
A	330.0 ±2.0	330.0 ±2.0
C	13.0 ±0.2	13.0 ±0.2
D	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
W ₁	13.4 ±1.0	17.4 ±1.0
W ₂	17.4 ±1.0	24.4 ±1.0

ALTERATION

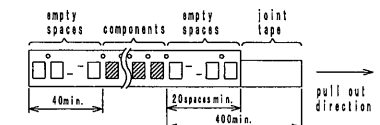
ISSUE	DESCRIPTION	DATE
△	Company name changed	Apr. 1 2005
△	Company name changed Modification: Taping Specification (type Y) (A ₀ : 6.91±0.1~6.9±0.1) (B ₀ : 8.43±0.1~8.4±0.1) (T: 0.343±0.013~0.34±0.02) (T ₂ : 5.685±0.2~5.7±0.2) (K: 5.64±0.1~5.7±0.1)	Apr. 1 2006
△	Company name changed	Apr. 1 2008
△	Company name changed	Apr. 1 2012
△	Company name changed	Apr. 1 2013
△	Company name changed	Apr. 1 2015

SPECIFICATIONS No.

PACKING QUANTITY

TYPE	REEL (p.c.s.)
E ₁ , E ₂ , D ₁ , D ₂	3,000
E _{3a} , E ₃ , D ₃ , D ₄ , D ₅	2,000
Z	1,500
Y	1,000

EMPTY SPACE AND JOINT TAPE



DESIGN	Reference
CHECKED	M. Yamaguchi M. Yamaguchi
APPROVAL	Y. Takata Y. Takata
ESTABLISHMENT	Feb. 12. 2002
TYPE NAME	ECHU 1*** () C9 ECHU 1*** () CV
NAME	FILM CHIP CAPACITOR ECHU (C)
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	2016C-J-E (1/1)

Toyama-Matsue Plant
Device Solutions Business Division
Panasonic Corporation

DO NOT SCALE DRAWING

REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS