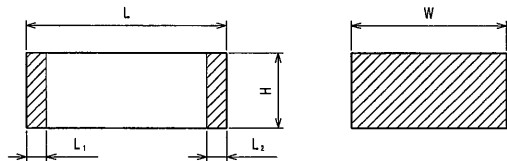
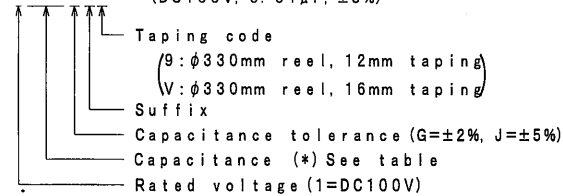


THIRD ANGLE PROJECTION

ITEM CODE	CAPACITANCE μF (*)	DIMENSIONS					TYPE
		L	W	H	L <sub>1</sub> , L <sub>2</sub>		
ECHU 1103 () C9	0.01 (103)	4.8±0.2	3.3±0.3	1.4±0.2	0.35±0.2		E <sub>1</sub>
" 1123 () C9	0.012 (123)	"	"	"	"	"	"
" 1153 () C9	0.015 (153)	"	"	2.0±0.2	"	"	E <sub>2</sub>
" 1183 () C9	0.018 (183)	"	"	"	"	"	"
" 1223 () C9	0.022 (223)	"	"	2.4±0.2	"	"	E <sub>3a</sub>
" 1273 () C9	0.027 (273)	"	"	2.8±0.2	"	"	E <sub>3</sub>
" 1333 () C9	0.033 (333)	6.0±0.2	4.1±0.3	1.8±0.2	"	"	D <sub>1</sub>
" 1393 () C9	0.039 (393)	"	"	2.0±0.2	"	"	D <sub>2</sub>
" 1473 () C9	0.047 (473)	"	"	2.4±0.2	"	"	D <sub>3</sub>
" 1563 () C9	0.056 (563)	"	"	2.8±0.2	"	"	D <sub>4</sub>
" 1683 () C9	0.068 (683)	"	"	3.2±0.2	"	"	D <sub>5</sub>
" 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, 0.01μF, ±5%)



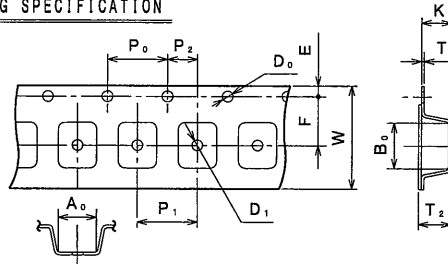
CONSTRUCTION

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 : ±2% (G), ±5% (J)
- Rated voltage : DC100V
- Withstand voltage : Rated voltage × 150% for 60s
- Insulation resistance : 1. R ≥ 3,000MΩ at 20°C, DC100V, for 60s
- Dissipation factor : ≤ 0.6% at 1kHz, 20°C
- Category temperature range : from -55°C to +105°C (including temperature rise on unit surface)

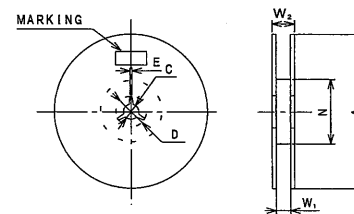
TAPING SPECIFICATION



TYPE	A <sub>0</sub>	B <sub>0</sub>	T	T <sub>2</sub>	K
E <sub>1</sub>	3.8±0.1	5.1±0.1	0.30±0.05	2.0±0.2	1.9±0.1
E <sub>2</sub>	"	"	"	2.6±0.2	2.6±0.1
E <sub>3a</sub> , E <sub>3</sub>	"	"	"	3.4±0.2	3.3±0.1
D <sub>1</sub> , D <sub>2</sub>	4.6±0.1	6.3±0.1	"	2.7±0.2	2.6±0.1
D <sub>3</sub> , D <sub>4</sub>	"	"	"	3.5±0.2	3.4±0.1
D <sub>5</sub>	"	"	"	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 <sub>1</sub> , E <sub>2</sub> , E <sub>3a</sub> , E <sub>3</sub>	D <sub>1</sub> , D <sub>2</sub> , D <sub>3</sub> , D <sub>4</sub> , D <sub>5</sub> , 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 <sub>1</sub>	8.0 ± 0.1	8.0 ± 0.1	12.0 ± 0.1
P <sub>2</sub>	2.0 ± 0.05	2.0 ± 0.05	2.0 ± 0.1
P <sub>0</sub>	4.0 ± 0.1	4.0 ± 0.1	4.0 ± 0.1
φD <sub>0</sub>	1.5 <sup>+0.1</sup> <sub>0</sub>	1.5 <sup>+0.1</sup> <sub>0</sub>	1.5 <sup>+0.1</sup> <sub>0</sub>
φD <sub>1</sub>	1.5 <sup>+0.2</sup> <sub>0</sub>	-	1.5 <sup>+0.25</sup> <sub>0</sub>

PACKING SPECIFICATION



SYMBOL	DIMENSIONS	
	E <sub>1</sub> , E <sub>2</sub> , E <sub>3a</sub> , E <sub>3</sub> , D <sub>1</sub> , D <sub>2</sub> , D <sub>3</sub> , D <sub>4</sub> , D <sub>5</sub> , 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 <sub>1</sub>	13.4 ± 1.0	17.4 ± 1.0
W <sub>2</sub>	17.4 ± 1.0	24.4 ± 1.0

ALTERATION

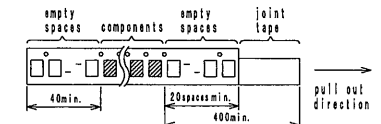
ISSUE	DESCRIPTION	DATE
△	Company name changed	Apr. 1 2005
△	Company name changed Modification: Taping Specification (type Y) (A <sub>0</sub> : 6.91±0.1-6.9±0.1) (B <sub>0</sub> : 8.43±0.1-8.4±0.1) (T: 0.343±0.013-0.34±0.02) (T <sub>2</sub> : 5.685±0.2-5.7±0.2) (K: 5.64±0.1-5.7±0.1)	Apr. 1 2006
△	Company 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 <sub>1</sub> , E <sub>2</sub> , D <sub>1</sub> , D <sub>2</sub>	3,000
E <sub>3a</sub> , E <sub>3</sub> , D <sub>3</sub> , D <sub>4</sub> , D <sub>5</sub>	2,000
Z	1,500
Y	1,000

EMPTY SPACE AND JOINT TAPE



DESIGN **Reference**

CHECKED *M. Yamamoto*  
M. Yamamoto

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)

Toiyama·Matsue Plant  
Device Solutions Business Division  
Panasonic Corporation

DO NOT SCALE DRAWING

REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS