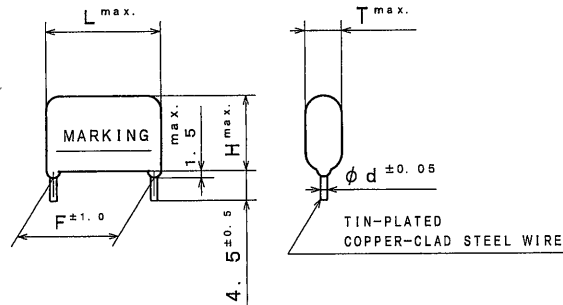


THIRD ANGLE PROJECTION

ITEM CODE	CAPACITANCE μF (*)	DIMENSIONS					VOLUME (mm <sup>3</sup> )
		L	T	H	S	d	
ECWFD2W474 () C	0.47 (474)	17.5	5.8	9.0	15.0	0.8	787
" 2W564 () C	0.56 (564)	"	6.2	9.4	"	"	874
" 2W684 () C	0.68 (684)	"	6.7	9.9	"	"	987
" 2W824 () C	0.82 (824)	"	7.2	10.4	"	"	1116
" 2W105 () C	1.0 (105)	"	7.8	11.0	"	"	1279
" 2W125 () C	1.2 (125)	"	8.5	11.6	"	"	1457
" 2W155 () C	1.5 (155)	"	9.3	12.5	"	"	1718
" 2W185 () C	1.8 (185)	"	10.1	13.3	"	"	1975
" 2W225 () C	2.2 (225)	"	11.1	14.3	"	"	2313
" 2W275 () C	2.7 (275)	25.3	9.0	13.7	22.5	"	2674
" 2W335 () C	3.3 (335)	"	9.8	14.6	"	"	3113
" 2W395 () C	3.9 (395)	"	10.7	15.4	"	"	3546
" 2W475 () C	4.7 (475)	"	11.7	16.4	"	"	4116



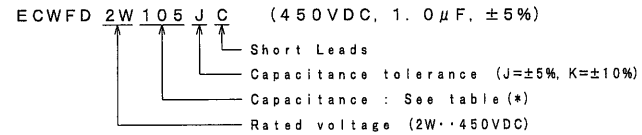
\*F: regulation of the root

**MARKING EXAMPLE**

WFD 2W  
105 J     
date code

TIN-PLATED  
COPPER-CLAD STEEL WIRE

**ITEM CODE NUMBER STRUCTURE**



**PACKING QUANTITY**

Capacitance range (μF)	Quantity (pcs.)
0.47 ~ 0.56	3000
0.68	2800
0.82	2600
1.0 ~ 1.2	2000
1.5	1600
1.8	1400
△ 2.2 ~ 2.7	1200
△ 3.3 ~ 3.9	1000
△ 4.7	600

**QUANTITY of MINIMUM ORDER**

Capacitance range (μF)	Quantity (pcs.)
△ 0.47 ~ 3.9	1000
△ 4.7	600

**CONSTRUCTION**

The capacitor is of non-inductive construction, wound with metallized polypropylene film dielectric.  
The capacitor is enclosed in non-combustible epoxy resin and has two leads.

**MARKING**

Marking comprises capacitance, capacitance tolerance, rated voltage and date code.

**PROPERTIES**

- \*Capacitance : See table at 1kHz.
- \*Capacitance tolerance : ±5% (J), ±10% (K) at 1kHz.
- \*Rated voltage : 450VDC
- △ (Derating of rated voltage by 0.62%/°C at more than 85°C)
- \*Withstand voltage (terminal-terminal) : 450VDC×150% for 60s
- \*Insulation resistance : ≥100000MΩ·μF at 100VDC, 20°C for 60s
- \*Dissipation factor : ≤0.1% at 1kHz, 20°C
- \*Category temperature range : △ From -40°C to +110°C (including temperature rise on unit surface)

ALTERATION		
ISSUE	DESCRIPTION	DATE
△1	Company name changed Correction	Apr. 1 2012
△2	Change category temperature range (+105°C→+110°C) Derating of rated voltage (1.25%/°C→0.62%/°C)	Jul. 9 2012
△3	Addition Capacitance (275~475)	Nov. 22 2012
△4	Company name changed	Apr. 1 2013
△5	Company name changed	Apr. 1 2015

SPECIFICATIONS No.

**Reference**

DESIGN	M. Yoshida
CHECKED	M. Yamaguchi
APPROVAL	T. Taketa
ESTABLISHMENT	Mar. 19. 2012
TYPE NAME	ECWFD2W*** () C
NAME	Metallized Polypropylene Film Capacitor
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	B020J-J-E (1/1)

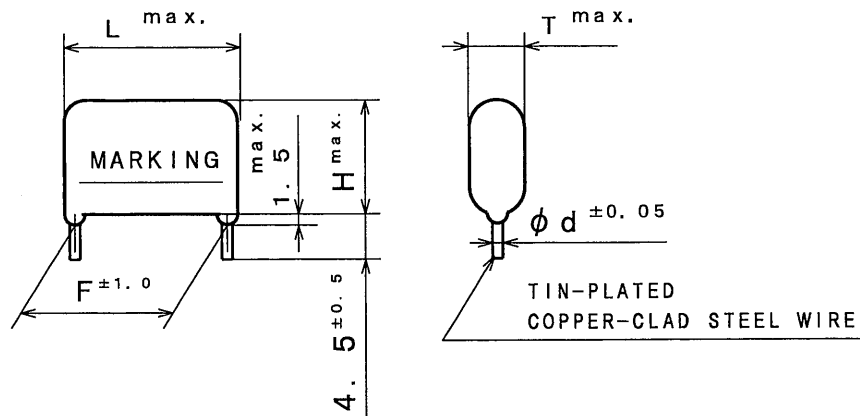
Toyama-Matsue Plant  
Device Solutions Business Division  
Panasonic Corporation

DO NOT SCALE DRAWING

REVISIONS INDICATED BY △

ALL DIMENSIONS ARE IN MILLIMETERS

THIRD ANGLE PROJECTION



·F: regulation of the root

PACKING QUANTITY

Capacitance range (μF)	Quantity (pcs.)
0.47	5000
0.68	2800
1.0	2000

QUANTITY of MINIMUM ORDER

Capacitance range (μF)	Quantity (pcs.)
0.47~1.0	1000

ITEM CODE	RATED VOLTAGE	CAP. (μF)	DIMENSIONS					VOLUME (mm <sup>3</sup> )
			L	T	H	F	d	
ECWFD 2W474**	450VDC	0.47	12.6	6.5	11.2	10.0	0.6	806
" 2W684**	"	0.68	"	7.7	12.4	"	"	1040
" 2W105**	"	1.0	"	9.2	13.9	"	"	1386

PC=±5% (J)  
QC=±10% (K)

CONSTRUCTION

The capacitor is of non-inductive construction, wound with metallized polypropylene film dielectric.

The capacitor is enclosed in non-combustible epoxy resin and has two leads.

MARKING

Marking comprises capacitance, capacitance tolerance, rated voltage and date code.

PROPERTIES

- \*Capacitance : See table at 1kHz.
- \*Capacitance tolerance : ±5% (J), ±10% (K) at 1kHz.
- \*Rated voltage : 450VDC  
(Derating of rated voltage by 0.62%/°C at more than 85°C)
- \*Withstand voltage (terminal-terminal) : 450VDC×150% for 60s
- \*Insulation resistance : ≥10000MΩ·μF at 100VDC, 20°C for 60s
- \*Dissipation factor : ≤0.1% at 1kHz, 20°C
- \*Category temperature range : From -40°C to +110°C  
(including temperature rise on unit surface)

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

ALTERATION

ISSUE	DESCRIPTION	DATE
①	Company name changed	Apr. 1 2015
②	Error correction (Delete Tol. in table)	Nov. 8 2016

SPECIFICATIONS No.

(example)

WFD 2W  
474 J

date code

DESIGN	<i>M. M. Koda</i>
CHECKED	<b>Reference</b>
APPROVAL	<i>K. Takumitsu</i>
ESTABLISHMENT	Oct. 10, 2013
TYPE NAME	ECWFD 2W***PC ECWFD 2W***QC
NAME	Metallized Polypropylene Film Capacitor
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	C018J-J-E (1/1)

Toyama·Matsue Plant  
Device Solutions Business Division  
Panasonic Corporation