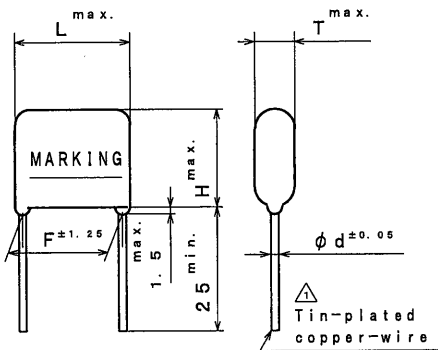


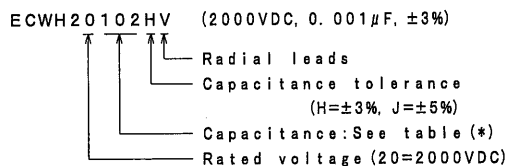
THIRD ANGLE PROJECTION

| ITEM CODE | CAPACITANCE μF (*) | DIMENSIONS | | | | | |
|----------------|-----------------------|------------|------|------|------|-----|--|
| | | L | T | H | F | d | |
| ECWH20102 () V | 0.001 (102) | 18.0 | 6.5 | 13.5 | 15.0 | 0.8 | |
| " 20112 () V | 0.0011 (112) | " | " | " | " | " | |
| " 20122 () V | 0.0012 (122) | " | 7.0 | " | " | " | |
| " 20132 () V | 0.0013 (132) | " | " | 14.0 | " | " | |
| " 20152 () V | 0.0015 (152) | " | 7.5 | " | " | " | |
| " 20162 () V | 0.0016 (162) | " | " | 14.5 | " | " | |
| " 20182 () V | 0.0018 (182) | " | 8.0 | " | " | " | |
| " 20202 () V | 0.002 (202) | " | " | 15.0 | " | " | |
| " 20222 () V | 0.0022 (222) | " | 8.5 | " | " | " | |
| " 20242 () V | 0.0024 (242) | " | " | 15.5 | " | " | |
| " 20272 () V | 0.0027 (272) | " | 9.0 | 16.0 | " | " | |
| " 20302 () V | 0.003 (302) | " | 9.5 | " | " | " | |
| " 20332 () V | 0.0033 (332) | " | 8.5 | 15.5 | " | " | |
| " 20362 () V | 0.0036 (362) | " | 9.0 | " | " | " | |
| " 20392 () V | 0.0039 (392) | " | " | 16.0 | " | " | |
| " 20432 () V | 0.0043 (432) | " | 9.5 | " | " | " | |
| " 20472 () V | 0.0047 (472) | 23.0 | 7.0 | 15.5 | 20.0 | " | |
| " 20512 () V | 0.0051 (512) | " | 7.5 | 16.0 | " | " | |
| " 20562 () V | 0.0056 (562) | " | " | " | " | " | |
| " 20622 () V | 0.0062 (622) | " | 8.0 | 16.5 | " | " | |
| " 20682 () V | 0.0068 (682) | " | 8.5 | " | " | " | |
| " 20722 () V | 0.0072 (722) | " | " | 17.0 | " | " | |
| " 20752 () V | 0.0075 (752) | " | 9.5 | 18.0 | " | " | |
| " 20822 () V | 0.0082 (822) | " | 10.0 | " | " | " | |
| " 20912 () V | 0.0091 (912) | " | " | 19.0 | " | " | |
| " 20103 () V | 0.01 (103) | " | 10.5 | 19.5 | " | " | |
| " 20113 () V | 0.011 (113) | " | 11.0 | 20.0 | " | " | |
| " 20123 () V | 0.012 (123) | " | 11.5 | 20.5 | " | " | |
| " 20133 () V | 0.013 (133) | " | 12.0 | 21.0 | " | " | |
| " 20153 () V | 0.015 (153) | " | " | 21.5 | " | " | |



F: regulation of the root

ITEM CODE NUMBER STRUCTURE



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.

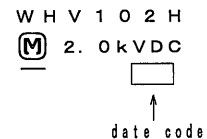
MARKING

Marking comprises capacitance, capacitance tolerance, rated voltage, manufacturer's trademark and type name "WHV" and manufacturer's date code.

PROPERTIES

- Capacitance : See table at 1kHz
- Capacitance tolerance : ±3% (H), ±5% (J)
- Rated voltage : 2000VDC (Derating of rated voltage by 1.25%/°C at more than 85°C)
- Withstand voltage (terminal-terminal) : DC Rated voltage x 150% for 60s
- (terminal-enclosure) : 1500VAC for 60s
- Insulation resistance : 30,000MΩ or more, at 500VDC, 20°C for 60s
- Dissipation factor : 0.1% or less at 1kHz, 0.2% or less at 10kHz
- Category temperature range : From -40°C to +105°C (including temperature rise on unit surface)

(example)



| ALTERATION | | |
|------------|--|--------------|
| ISSUE | DESCRIPTION | DATE |
| △ | Modification | Dec. 27 2002 |
| △ | Company name changed | OCT. 1 2004 |
| △ | Company name changed | Apr. 1 2005 |
| △ | Company name changed | Apr. 1 2006 |
| △ | Alteration: Category temperature range (-25°C~+40°C) | Apr. 20 2007 |
| △ | Correction: category temperature range (-40°C~+85°C~-40°C~+105°C) Addition: rated voltage (Derating of rated voltage by 1.25%/°C at more than 85°C) 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.

Reference

| | |
|---|----------------------|
| DESIGN | <i>M. Yanagimoto</i> |
| CHECKED | <i>M. Yanagimoto</i> |
| APPROVAL | <i>H. Takata</i> |
| ESTABLISHMENT | Dec. 12, 1996 |
| TYPE NAME | |
| ECWH 20*** () V | |
| NAME METALLIZED POLYPROPYLENE CAPACITOR | |
| DRAWING NAME | |
| PRODUCT DRAWING | |
| DRAWING No. | |
| CH-H-613M (1/1) | |

Toyama·Matsue Plant
 Device Solutions Business Division
 Panasonic Corporation