

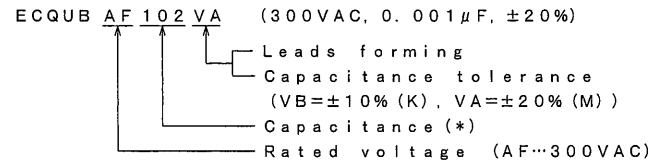
THIRD ANGLE PROJECTION

Type designation	Part No.	Cap. ( $\mu$ F) (*)	Dimensions							
			L	T	H	F	d	P	Q	
ECQUB	ECQUBAF102**	0.001 (102)	15.3	5.0	11.5	15.0	0.6	0 $\pm$ 0.8	1.4	
"	" AF122**	0.0012 (122)	"	"	"	"	"	"	"	
"	" AF152**	0.0015 (152)	"	"	"	"	"	"	"	
"	" AF182**	0.0018 (182)	"	"	"	"	"	"	"	
"	" AF222**	0.0022 (222)	"	"	"	"	"	"	"	
"	" AF272**	0.0027 (272)	"	"	"	"	"	"	"	
"	" AF332**	0.0033 (332)	"	"	"	"	"	"	"	
"	" AF392**	0.0039 (392)	"	"	"	"	"	"	"	
"	" AF472**	0.0047 (472)	"	"	"	"	"	"	"	
"	" AF562**	0.0056 (562)	"	"	"	"	"	"	"	
"	" AF682**	0.0068 (682)	"	"	"	"	"	"	"	

VB... $\pm$ 10% (K)  
VA... $\pm$ 20% (M)

ALTERATION		
ISSUE	DESCRIPTION	DATE
SPECIFICATIONS No.		

ITEM CODE NUMBER STRUCTURE

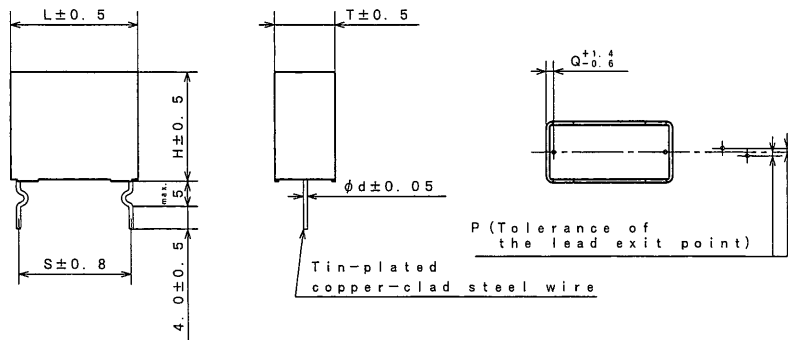


PACKING QUANTITY

Capacitance range ( $\mu$ F)	Quantity (pcs.)
0.001~0.0068	3000

QUANTITY of MINIMUM ORDER

Capacitance range ( $\mu$ F)	Quantity (pcs.)
0.001~0.0068	1000

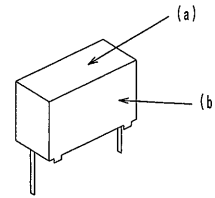
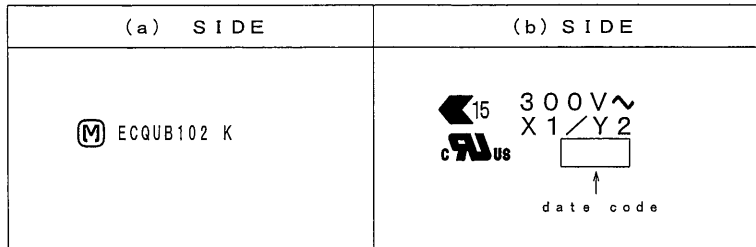


Reference

DESIGN	K. Muraoka
CHECKED	K. Asahi
APPROVAL	K. Takemura
ESTABLISHMENT	Dec. 5. 2019
TYPE NAME	
ECQUBAF***VB	
ECQUBAF***VA	
NAME Safety Standard approval	
Metalized Capacitor	
DRAWING NAME	
PRODUCT DRAWING	
DRAWING No.	
J046B-J-E (1/2)	

Toyama-Matsue Plant  
Device Solutions Business Division  
Panasonic Corporation

THIRD ANGLE PROJECTION



(Note) Only  $\pm 10\%$  as capacitance tolerance to be marked as "K"

Note When applying for the agency, designate the capacitor in the following form, "ECQUB, 0.001 $\mu$ F"  
The part number need not be specified.

North America UL60384-14  
CAN/CSA-E60384-14

Europe IEC60384-14  
EN60384-14

CLASS Y2/X1

CONSTRUCTION

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

MARKING

Marking comprises capacitance, capacitance tolerance (K only), rated voltage, type designation, capacitor classification, manufacturer's trademark, recognition mark and date code.

PROPERTIES

Capacitance	: See table	at 1kHz
Capacitance tolerance	: $\pm 10\%$ (K), $\pm 20\%$ (M)	at 1kHz
Rated voltage	: 300VAC	
Withstand voltage (terminal-terminal)	: 1600VAC or 2121VDC	} for 60s
	(terminal-enclosure): 2100VAC	
Insulation resistance	: $\geq 15000M\Omega$	at 100VDC for 60s, 20°C
	: $\geq 2000M\Omega$	at 500VDC for 60s, 20°C
Dissipation factor	: $\leq 0.1\%$	at 1kHz, 20°C
Category temperature range	: From -40°C to +110°C	

Reference

TYPE NAME	ECQUBAF***VB ECQUBAF***VA
DRAWING No.	J046B-J-E (2/2)

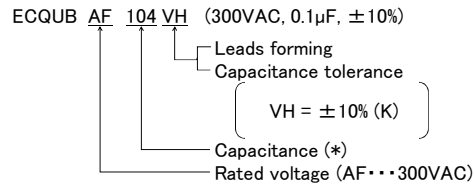
Toyama-Matsue Plant  
Device Solutions Business Division  
Panasonic Corporation

THIRD ANGLE PROJECTION

Type designation	Part No.	Cap.		Dimensions						
		μF	(*)	L	T	H	S	d	P	Q
ECQUB	ECQUB AF103**	0.01	(103)	18.5	5.0	9.5	12.5	0.6	0±0.8	1.8
"	" AF153**	0.015	(153)	"	6.0	10.5	"	"	"	"
"	" AF223**	0.022	(223)	"	"	"	"	"	"	"
"	" AF333**	0.033	(333)	"	"	"	"	"	"	"
"	" AF473**	0.047	(473)	"	7.0	11.5	"	"	"	"
"	" AF683**	0.068	(683)	"	8.0	12.5	"	"	"	"
"	" AF104**	0.1	(104)	"	"	16.5	"	"	"	"

VH= ±10% (K)  
VG= ±20% (M)

ITEM CODE NUMBER STRUCTURE



CONSTRUCTION

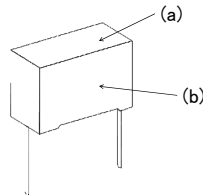
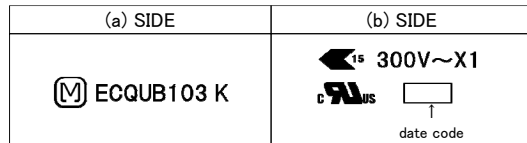
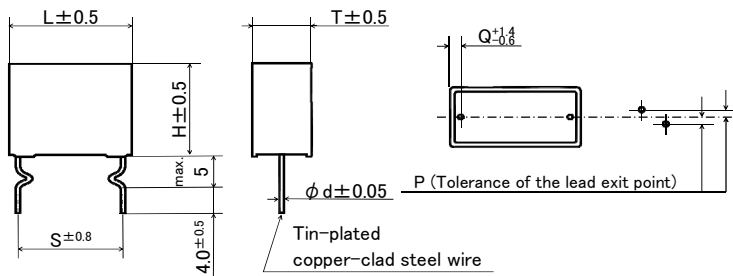
The capacitor is of non-inductive construction, would with metallized polypropylene film dielectric. The capacitor is enclosed in non-combustible polybutylene terephthalate case, filled with non-combustible epoxy resin and has two leads.

MARKING

Marking comprises capacitance, capacitance tolerance (K only), rated voltage, type designation, capacitor classification, manufacturer's trademark, recognition mark and date code.

PROPERTIES

Capacitance	: See table	at 1kHz
Capacitance tolerance	: ±10% (K) , ±20% (M)	at 1kHz
Rated voltage	: 300VAC	
Withstand voltage		
(terminal-terminal)	: 690VAC or 1768VDC	for 60s
(terminal-enclosure)	: 2100VAC	for 60s
Insulation resistance	: ≥15000MΩ	at 100VDC for 60s, 20°C
	: ≥2000MΩ	at 500VDC for 60s, 20°C
Dissipation factor	: ≤0.1%	at 1kHz, 20°C



DO NOT SCALE DRAWING

REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS

ALTERATION		
ISSUE	DESCRIPTION	DATE
SPECIFICATIONS No.		

PACKING QUANTITY

Capacitance range (μF)	Quantity (pcs.)
0.01 ~ 0.047	1500
0.068	1200
0.1	1000

QUANTITY of MINIMUM ORDER

Capacitance range (μF)	Quantity (pcs.)
0.01 ~ 0.1	1000

DESIGN	K.M. (signature)
CHECK	<b>REFERENCE</b>
APPR	
ESTABLISHMENT	July. 28.2020
TYPE NAME	
ECQUBAF***VH ECQUBAF***VG	
NAME	
Safety Standard approval Metallized Capacitor	
DRAWING NAME	
PRODUCT DRAWING	
DRAWING No.	
K035B-J-E (1/1)	
Toyama·Matsue Plant Device Solutions Business Division Panasonic Corporation	