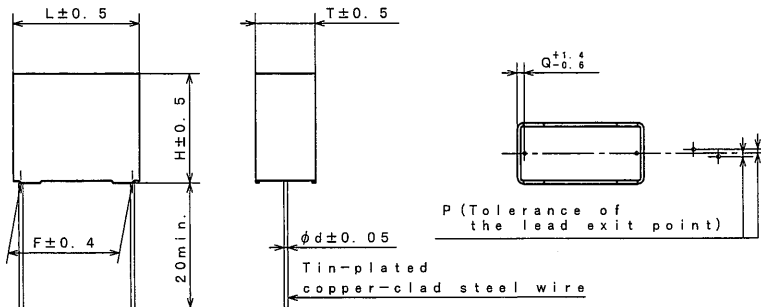


THIRD ANGLE PROJECTION

Type designation	Part No.	Cap. (μ F) (*)	Dimensions							MARKING STYLE
			L	T	H	F	d	P	Q	
ECQUA	ECQUAAF822 ()	0.0082 (822)	15.3	5.0	11.5	12.5	0.6	0 \pm 0.8	1.5	1
"	" AF103 ()	0.01 (103)	"	"	"	"	"	"	"	"
"	" AF123 ()	0.012 (123)	"	"	"	"	"	"	"	"
"	" AF153 ()	0.015 (153)	"	"	"	"	"	"	"	"
"	" AF183 ()	0.018 (183)	"	"	"	"	"	"	"	"
"	" AF223 ()	0.022 (223)	"	"	"	"	"	"	"	"
"	" AF273 ()	0.027 (273)	"	"	"	"	"	"	"	"
"	" AF333 ()	0.033 (333)	"	"	"	"	"	"	"	"
"	" AF393 ()	0.039 (393)	"	"	"	"	"	"	"	"
"	" AF473 ()	0.047 (473)	"	6.0	13.0	"	"	"	"	"
"	" AF563 ()	0.056 (563)	17.5	5.0	12.0	15.0	"	"	1.3	"
"	" AF683 ()	0.068 (683)	"	"	"	"	"	"	"	"
"	" AF823 ()	0.082 (823)	"	"	"	"	"	"	"	"
"	" AF104 ()	0.1 (104)	"	"	"	"	"	"	"	2
"	" AF124 ()	0.12 (124)	"	6.0	13.0	"	"	"	"	1
"	" AF154 ()	0.15 (154)	"	"	"	"	"	"	"	2
"	" AF184 ()	0.18 (184)	"	7.5	14.0	"	"	"	"	1
"	" AF224 ()	0.22 (224)	"	"	"	"	"	"	"	2
"	" AF274 ()	0.27 (274)	"	9.0	16.0	"	"	"	"	1
"	" AF334 ()	0.33 (334)	"	"	"	"	"	"	"	2
"	" AF394 ()	0.39 (394)	26.0	8.5	15.0	22.5	0.8	"	1.8	1
"	" AF474 ()	0.47 (474)	"	"	"	"	"	"	"	2
"	" AF564 ()	0.56 (564)	"	10.0	17.0	"	"	"	"	1
"	" AF684 ()	0.68 (684)	"	"	"	"	"	"	"	2
"	" AF824 ()	0.82 (824)	"	12.0	19.0	"	"	"	"	1
"	" AF105 ()	1.0 (105)	"	"	"	"	"	"	"	2
"	" AF125 ()	1.2 (125)	31.0	12.0	22.0	27.5	"	"	"	1
"	" AF155 ()	1.5 (155)	"	"	"	"	"	"	"	2
"	" AF185 ()	1.8 (185)	"	14.5	24.5	"	"	"	"	1
"	" AF225 ()	2.2 (225)	"	"	"	"	"	"	"	2
"	" AF275 ()	2.7 (275)	"	19.0	29.0	"	"	"	"	1
"	" AF335 ()	3.3 (335)	"	"	"	"	"	"	"	2
"	" AF475 ()	4.7 (475)	"	23.0	33.0	"	"	"	"	"

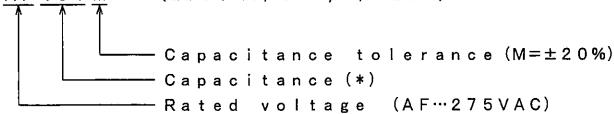
Tol. symbol (K or M)



*F: Regulation of the root

ITEM CODE NUMBER STRUCTURE

ECQUA AF 104 M (275VAC, 0.1 μ F, \pm 20%)



Capacitance tolerance (M= \pm 20%)
 Capacitance (*)
 Rated voltage (AF...275VAC)

PACKING QUANTITY

Capacitance range (μ F)	Quantity (pcs.)
0.0082~0.039	1600
0.047~0.15	1500
0.18~0.22	1200
0.27~0.33	1000
0.39~0.47	600
0.56~0.68	500
0.82~1.0	300
1.2~2.2	200
2.7~3.3	150
4.7	100

QUANTITY of MINIMUM ORDER

Capacitance range (μ F)	Quantity (pcs.)
0.0082~0.33	1000
0.39~0.47	600
0.56~0.68	500
0.82~1.0	300
1.2~2.2	200
2.7~3.3	150
4.7	100

ALTERATION

ISSUE	DESCRIPTION	DATE

SPECIFICATIONS No.

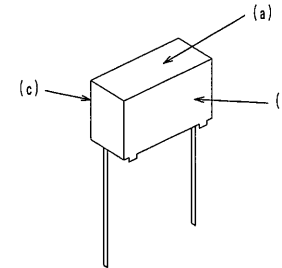
Reference

DESIGN	K. Murakami
CHECKED	K. Ozaki
APPROVAL	K. Takemitsu
ESTABLISHMENT	Dec. 5, 2019
TYPE NAME	ECQUAAF*** ()
NAME	Safety Standard approval Metallized Capacitor
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	J042B-J-E (1/2)

Toyama·Matsue Plant
 Device Solutions Business Division
 Panasonic Corporation

THIRD ANGLE PROJECTION

STYLE	(a) SIDE	(b) or (c) SIDE
1	(M) ECQUA103K	
2	(M) ECQUA104 275V~ X2	



(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, "ECQUA, 0.33 μ F"
The part number need not be specified.

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

Europe IEC60384-14
EN60384-14

CLASS X2

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	: 275VAC	
Withstand voltage (terminal-terminal)	: 633VAC or 1183VDC	} for 60s
(terminal-enclosure)	: 2050VAC	
Insulation resistance	: $\geq 15000\Omega$ ($C \leq 0.33\mu F$)	} at 100VDC for 60s, 20°C
	: $\geq 5000\Omega \cdot \mu F$ ($C > 0.33\mu F$)	
	: $\geq 2000\Omega$ ($C \leq 0.47\mu F$)	
Dissipation factor	: $\leq 0.1\%$ ($C \leq 1.0\mu F$)	} at 1kHz, 20°C
	: $\leq 0.2\%$ ($C > 1.0\mu F$)	
Category temperature range	: From -40°C to +110°C	

Reference

TYPE NAME
ECQUAAF*** ()
DRAWING No.
J042B-J-E (2/2)

Toyama-Matsue Plant
Device Solutions Business Division
Panasonic Corporation