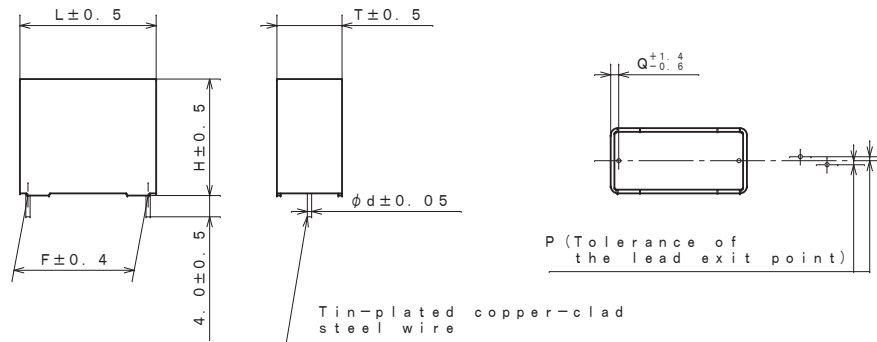


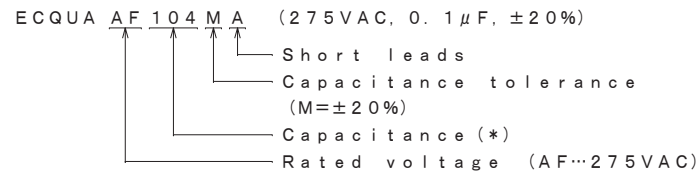
Type designation	Part No.	Cap. (μ F) (*)	Dimensions								MARKING STYLE
			L	T	H	F	d	P	Q		
ECQUA	ECQUAAF822 () A	0.0082 (822)	15.3	5.0	11.5	12.5	0.6	0 \pm 0.8	1.5	1	
"	" AF103 () A	0.01 (103)	"	"	"	"	"	"	"	"	
"	" AF123 () A	0.012 (123)	"	"	"	"	"	"	"	"	
"	" AF153 () A	0.015 (153)	"	"	"	"	"	"	"	"	
"	"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

Tol. symbol (K or M)



* F: Regulation of the root

ITEM CODE NUMBER STRUCTURE



DO NOT SCALE DRAWING

REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS

ALTERATION

ISSUE	DESCRIPTION	DATE

SPECIFICATIONS No.

PACKING QUANTITY


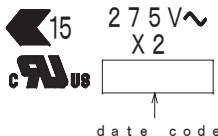



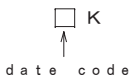
Capacitance range (μ F)	Quantity (pcs.)
0.0082~0.1	1600
0.12 ~0.15	1200
0.18 ~0.22	1000
0.27 ~0.47	800
0.56 ~0.68	500
0.82 ~1.0	300
1.2 ~2.2	200
2.7 ~3.3	150
4.7	100

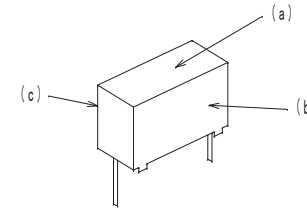
QUANTITY of MINIMUM ORDER

Capacitance range (μ F)	Quantity (pcs.)
0.0082~0.22	1000
0.27 ~0.47	800
0.56 ~0.68	500
0.82 ~1.0	300
1.2 ~2.2	200
2.7 ~3.3	150
4.7	100

DESIGN	M. MEKADA
CHECK	T. KATO
APPROVAL	T. KATO
ESTABLISHMENT	Nov. 1. 2022
TYPE NAME	
ECQUAAF*** () A	
NAME Safety Standard approval	
Metallized Capacitor	
DRAWING NAME	
PRODUCT DRAWING	
DRAWING No.	
M015B-J-E (1/2)	

Film Capacitor Business Unit
Device Solutions Business Division
Panasonic Industry Co., Ltd.

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



Note When applying for the agency, designate the capacitor in the following form, "ECQUA, 0.33μF"
The part number need not be specified.

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

Europe IEC60384-14
EN60384-14

CLASS X2

(Note) Only ±10% as capacitance tolerance to be marked as "K"

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 : ±10% (K), ±20% (M) at 1kHz
 Rated voltage : 275VAC
 Withstand voltage (terminal-terminal) : 633VAC or 1183VDC } for 60s
 (terminal-enclosure) : 2050VAC
 Insulation resistance : ≥15000MΩ (C≤0.33μF) } at 100VDC for 60s, 20°C
 : ≥5000MΩ·μF (C>0.33μF)
 : ≥2000MΩ (C≤0.47μF) at 500VDC for 60s, 20°C
 Dissipation factor : ≤0.1% (C≤1.0μF) } at 1kHz, 20°C
 : ≤0.2% (C>1.0μF)
 Category temperature range : From -40°C to +110°C

REFERENCE

TYPE NAME
ECQUAAF*** () A

DRAWING No.
M015B-J-E (2/2)

Film Capacitor Business Unit
Device Solutions Business Division
Panasonic Industry Co., Ltd.