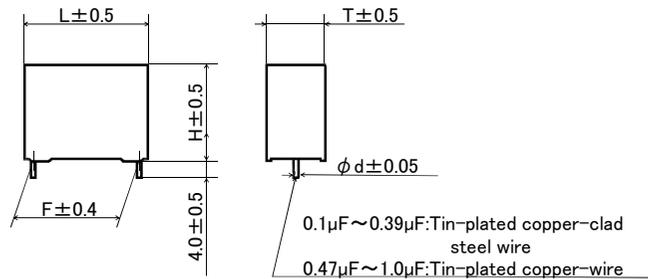
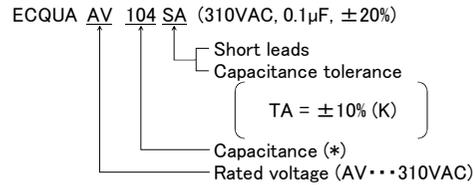


THIRD ANGLE PROJECTION

Type designation	Part No.	Cap.		Dimensions						
		μF	(*)	L	T	H	F	d	P	Q
ECQUA	ECQUA AV104**	0.1	(104)	18.5	8.0	12.5	15.0	0.6	0±0.8	1.8
"	" AV124**	0.12	(124)	"	"	"	"	"	"	"
"	" AV154**	0.15	(154)	"	"	"	"	"	"	"
"	" AV184**	0.18	(184)	"	"	16.5	"	"	"	"
"	" AV224**	0.22	(224)	"	"	"	"	"	"	"
"	" AV274**	0.27	(274)	"	9.0	18.0	"	"	"	"
"	" AV334**	0.33	(334)	"	"	"	"	"	"	"
"	" AV394**	0.39	(394)	"	11.0	20.0	"	"	"	"
"	" AV474**	0.47	(474)	26.0	9.0	16.0	22.5	0.8	"	"
"	" AV564**	0.56	(564)	"	12.0	19.0	"	"	"	"
"	" AV684**	0.68	(684)	"	"	"	"	"	"	"
"	" AV824**	0.82	(824)	"	14.0	21.0	"	"	"	"
"	" AV105**	1.0	(105)	"	"	"	"	"	"	"

TA= ±10% (K)
SA= ±20% (M)

ITEM CODE NUMBER STRUCTURE



*F: Regulation of the root

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REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS

ALTERATION		
ISSUE	DESCRIPTION	DATE
Δ 1	Change packing quantity	Sep.15 2020
SPECIFICATIONS No		

Δ PACKING QUANTITY

Capacitance range (μF)	quantity (pcs.)
0.1 ~ 0.15	1400
0.18 ~ 0.22	1200
0.27 ~ 0.33	800
0.39	600
0.47	700
0.56 ~ 0.68	500
0.82 ~ 1.0	300

Δ QUANTITY OF MINIMUM ORDER

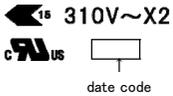
Capacitance range (μF)	quantity (pcs.)
0.1 ~ 0.22	1000
0.27 ~ 0.33	800
0.39	600
0.47	700
0.56 ~ 0.68	500
0.82 ~ 1.0	300

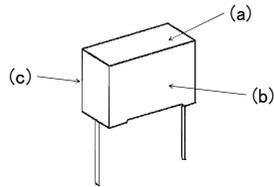
REFERENCE

For Automotive

DESIGN	K.Murakami
CHECKED	H.Fukushima
APPROVAL	K.Fukumitsu
ESTABLISHMENT	May.19.2020
TYPE NAME	
ECQUAAV***TA ECQUAAV***SA	
NAME Safety Standard approval Metallized Capacitor	
DRAWING NAME PRODUCT DRAWING	
DRAWING No. J025B-J-E (1/2)	
Toyama·Matsue Plant Device Solutions Business Division Panasonic Corporation	

THIRD ANGLE PROJECTION

(a) SIDE	(b) or (c) SIDE
	



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

Noth America UL60384-14
CAN/CSA E60384-14

Europe IEC60384-14
EN60384-14

CONSTRUCTION

The capacitor is of non-inductive construction, would 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	: 310VAC	
Withstand voltage (terminal-terminal)	: 713VAC or 1768VDC	for 60s
(terminal-enclosure)	: 2120VAC	for 60s
Insulation resistance	: $\geq 15000M\Omega$ (C $\leq 0.33\mu$ F)	at 100VDC for 60s, 20°C
	: $\geq 5000M\Omega \cdot \mu$ F (C > 0.33 μ F)	at 100VDC for 60s, 20°C
	: $\geq 2000M\Omega$ (C $\leq 0.47\mu$ F)	at 500VDC for 60s, 20°C
Dissipation factor	: $\leq 0.1\%$	at 1kHz, 20°C

REFERENCE

For Automotive

TYPE NAME	ECQUAAV***TA ECQUAAV***SA
DRAWING No.	J025B-J-E (2/2)
Toyama·Matsue Plant Device Solutions Business Division Panasonic Corporation	

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REVISIONS INDICATED BY Δ

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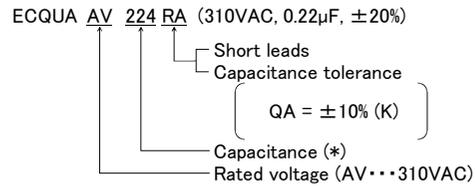
THIRD ANGLE PROJECTION

Type designation	Part No.	Cap. μF (*)	Dimensions							
			L	T	H	F	d	P	Q	
ECQUA	ECQUA AV224**	0.22 (224)	26.0	7.0	14.0	22.5	0.8	0±0.8	1.8	
"	" AV274**	0.27 (274)	"	8.0	15.0	"	"	"	"	
"	" AV334**	0.33 (334)	"	"	"	"	"	"	"	
"	" AV394**	0.39 (394)	"	9.0	16.0	"	"	"	"	

QA= ±10% (K)
RA= ±20% (M)

ALTERATION		
ISSUE	DESCRIPTION	DATE
△1	Change packing quantity	Sep.15 2020
SPECIFICATIONS No		

ITEM CODE NUMBER STRUCTURE

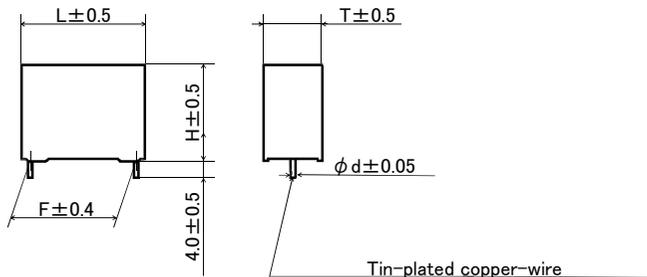


△ PACKING QUANTITY

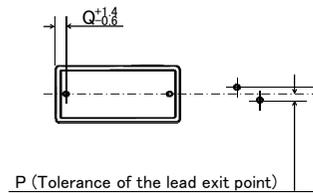
Capacitance range (μF)	quantity (pcs.)
0.22	900
0.27 ~ 0.33	800
0.39	700

△ QUANTITY OF MINIMUM ORDER

Capacitance range (μF)	quantity (pcs.)
0.22	900
0.27 ~ 0.33	800
0.39	700



*F:Regulation of the root



REFERENCE

For Automotive

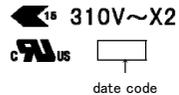
DESIGN	K.Murakami
CHECKED	H.Fukushima
APPROVAL	K.Fukumitsu
ESTABLISHMENT	May.19.2020
TYPE NAME	
ECQUAAV***QA ECQUAAV***RA	
NAME	
Safety Standard approval Metallized Capacitor	
DRAWING NAME	
PRODUCT DRAWING	
DRAWING No.	
J028B-J-E (1/2)	
Toyama·Matsue Plant Device Solutions Business Division Panasonic Corporation	

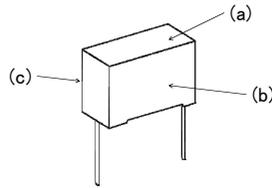
DO NOT SCALE DRAWING

REVISIONS INDICATED BY △

ALL DIMENSIONS ARE IN MILLIMETERS

THIRD ANGLE PROJECTION

(a) SIDE	(b) or (c) SIDE
	



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

Noth America UL60384-14
 CAN/CSA E60384-14

Europe IEC60384-14
 EN60384-14

CONSTRUCTION

The capacitor is of non-inductive construction, would 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.

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	: $\geq 5000M\Omega \cdot \mu$ F (C > 0.33 μ F)	at 100VDC for 60s, 20°C
	: $\geq 2000M\Omega$ (C $\leq 0.47\mu$ F)	at 500VDC for 60s, 20°C
Dissipation factor	: $\leq 0.1\%$	at 1kHz, 20°C

REFERENCE

For Automotive

TYPE NAME	ECQUAAV***QA ECQUAAV***RA
DRAWING No.	J028B-J-E (2/2)
Toyama·Matsue Plant Device Solutions Business Division Panasonic Corporation	

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REVISIONS INDICATED BY Δ

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