# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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## Panasonic

## **Plastic Film Capacitors**

### Metallized Polypropylene Film Capacitor

### Type : ECQUG [Class X1]

In accordance with UL/CSA and European safety regulation class X1

#### Features

- Equipped with a safety mechanism
- Flame-retardant plastic case and non combustible resin
- RoHS directive compliant

#### **Recommended applications**

• Interference suppressors



#### Applicable standard

\* It is certified as type ECQUG in the following approval.

Арр	roval	Class	Certification organization		
UL	UL60384-14	Class X1	UL		
CSA	CAN/CSA E60384-14	Class X1	CSA		
Europe	EN60384-14	Class X1	VDE		
International	IEC60384-14	Class X1	VDE		

\* When applying this capacitor to European and American safety standards, please use type designation and rating such as ECQUG, 0.1 µF.

\* Approval number (File No.) of safety regulations are subject to revision without notice. Ask factory for a copy of the latest file No.

\* European standards marking are VDE only. But, there are no problem using this capacitor in a device which will get approvals from certification bodies in Europe, NEMKO, FIMKO, SEMKO, DEMKO, and SEV etc. except VDE and FIMKO.

Specifications						
Category temperature range	−40 °C to +100 °C					
Rated voltage	300 V.AC					
Rated capacitance	0.010 μF to 1.0 μF (E6)					
Capacitance tolerance	±20 % (M)					
Dissipation factor (tan $\delta$ )	tan $\delta \leq$ 1.0 % (20 °C, 1 kHz )					
Withstand voltage	Between terminals : 575 V.AC, 1768 V.DC, 60 s Between terminals to enclosure : 2100 V.AC, 60 s					
Insulation resistance (IR)	C ≤ 0.33 µF : IR ≥ 15000 MΩ (20 °C, 100 V.DC, 60 s) C > 0.33 µF : IR ≥ 5000 MΩ · µF (20 °C, 100 V.DC, 60 s) IR ≥ 2000 MΩ (20 °C, 500 V.DC, 60 s)					

\* Use of this capacitor is limited to AC voltage (50 Hz or 60 Hz sine wave).

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### **Plastic Film Capacitors**



#### Rating · Dimensions · Quantity

#### • Capacitance tolerance : ±20 %(M)

Part No.	Capacitance	Dimensions (mm)					Min.		
	(μF)	L	Т	Н	F	<i>ø</i> d	Р	Q	order Q'ty
ECQU3A103MG()	0.010	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3	
ECQU3A153MG()	0.015	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3	
ECQU3A223MG()	0.022	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3	
ECQU3A333MG()	0.033	15.0	6.0	13.0	12.5	0.6	0±0.50	1.3	
ECQU3A473MG()	0.047	15.0	6.0	13.0	12.5	0.6	0±0.50	1.3	
ECQU3A683MG()	0.068	15.0	8.0	15.0	12.5	0.6	0±0.50	1.3	
ECQU3A104MG()	0.10	15.0	8.0	15.0	12.5	0.6	0±0.50	1.3	500
ECQU3A154MG()	0.15	18.0	8.0	16.5	15.0	0.8	0±0.50	1.3	
ECQU3A224MG()	0.22	18.0	9.0	17.5	15.0	0.8	0±0.50	1.3	
ECQU3A334MG()	0.33	26.0	9.0	18.5	22.5	0.8	0±0.50	1.5	
ECQU3A474MG()	0.47	26.0	10.5	20.0	22.5	0.8	0±0.75	1.5	
ECQU3A684MG()	0.68	26.0	12.5	22.0	22.5	0.8	0±0.75	1.5	]
ECQU3A105MG()	1.0	27.0	16.5	25.5	22.5	0.8	0±0.75	2.2	

\* (): Suffix for lead form