

Metallized Polyester Film Capacitor

Type: **ECQUG[Class X1]**

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

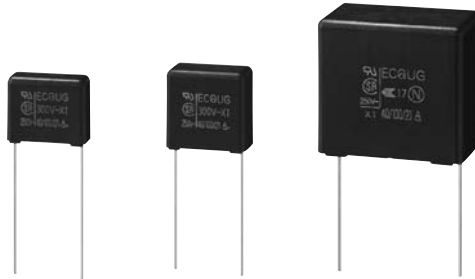
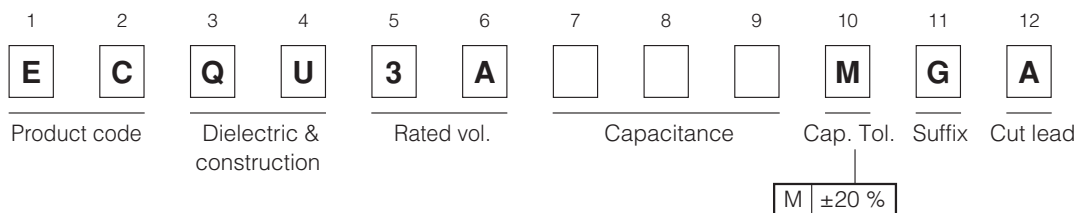
■ Features

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

■ Recommended Applications

- Interference suppressors

■ Explanation of Part Numbers



■ Applicable Standard

| | | |
|-------|-------------------|--|
| UL | UL 1414 | Across-The-Line Capacitors Antenna-Coupling and Line-By-Pass Components |
| CSA | CAN/CSA E60384-14 | Class X1 |
| ENEC | IEC 60384-14 | Class X1 |
| NEMKO | EN 60384-14 | |

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

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

■ Specifications

| | |
|------------------------------------|--|
| Category temp. range | -40 °C to +100 °C (85 °C max. on UL spec.) |
| Rated voltage | 300 VAC (IEC60384-14, CAN/CSA E60384-14), 250 VAC (UL) |
| Capacitance range | 0.010 μ F to 1.0 μ F (E6) |
| Capacitance tolerance | \pm 20 % (M) |
| Dissipation factor (tan δ) | tan δ \leq 1.0 % (20 °C, 1 kHz) |
| Withstand voltage | Between terminals : 575 VAC, 1768 VDC, 60 s Between terminals to enclosure : 2100 VAC, 60 s |
| Insulation resistance (IR) | C \leq 0.33 μ F : IR \geq 15000 M Ω (20 °C, 100 VDC, 60 s) C > 0.33 μ F : IR \geq 5000 M Ω · μ F (20 °C, 100 VDC, 60 s) IR \geq 2000 M Ω (20 °C, 500 VDC, 60 s) |

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

■Dimensions in mm (not to scale)

| STYLE | (a) side | (b) side | (c) side |
|-------|--------------------|---|----------|
| 1 | M .01 μF | ECQUG 300 V~X1 250 V~ 40/100/21 Date Code | 17 N |
| 2 | M 1.0 μF 300 V~ | ECQUG 300 V~X1 250 V~ 40/100/21 date code | |

■Rating & Dimensions

- Capacitance tolerance : ±20 %(M)

| Part No. | Cap. (μF) | Dimensions (mm) | | | | | | |
|-------------|--------------|-----------------|------|------|------|------|--------|-----|
| | | L | T | H | F | φd | P | Q |
| ECQU3A103MG | 0.010 | 15.0 | 5.0 | 11.5 | 12.5 | 0.60 | 0±0.5 | 1.3 |
| ECQU3A153MG | 0.015 | 15.0 | 5.0 | 11.5 | 12.5 | 0.60 | 0±0.5 | 1.3 |
| ECQU3A223MG | 0.022 | 15.0 | 5.0 | 11.5 | 12.5 | 0.60 | 0±0.5 | 1.3 |
| ECQU3A333MG | 0.033 | 15.0 | 6.0 | 13.0 | 12.5 | 0.60 | 0±0.5 | 1.3 |
| ECQU3A473MG | 0.047 | 15.0 | 6.0 | 13.0 | 12.5 | 0.60 | 0±0.5 | 1.3 |
| ECQU3A683MG | 0.068 | 15.0 | 8.0 | 15.0 | 12.5 | 0.60 | 0±0.5 | 1.3 |
| ECQU3A104MG | 0.10 | 15.0 | 8.0 | 15.0 | 12.5 | 0.60 | 0±0.5 | 1.3 |
| ECQU3A154MG | 0.15 | 18.0 | 8.0 | 16.5 | 15.0 | 0.80 | 0±0.5 | 1.3 |
| ECQU3A224MG | 0.22 | 18.0 | 9.0 | 17.5 | 15.0 | 0.80 | 0±0.5 | 1.3 |
| ECQU3A334MG | 0.33 | 26.0 | 9.0 | 18.5 | 22.5 | 0.80 | 0±0.5 | 1.5 |
| ECQU3A474MG | 0.47 | 26.0 | 10.5 | 20.0 | 22.5 | 0.80 | 0±0.75 | 1.5 |
| ECQU3A684MG | 0.68 | 26.0 | 12.5 | 22.0 | 22.5 | 0.80 | 0±0.75 | 1.5 |
| ECQU3A105MG | 1.0 | 27.0 | 16.5 | 25.5 | 22.5 | 0.80 | 0±0.75 | 2.2 |

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