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Interference Suppression Capacitor Metallized Polyester

Type: **ECQUG[Class X2]**

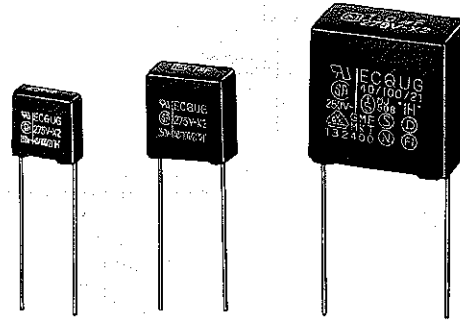
In accordance with UL/CSA and European safety regulation class X2

■Feature

- Equipped with a safety mechanism
- Compact
- Excellent active and passive and flame resistant properties

■Recommended Applications

- Interference suppressors



■Explanation of Part Numbers

| | | | | | | | | | | |
|--------------|---------------------------|---|---|------------|---|---------------------|---|-----------|----|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| E | C | Q | U | 2 | A | 1 | 0 | 4 | | G |
| Product code | Dielectric & construction | | | Rated vol. | | Nominal capacitance | | Cap. Tol. | | Suffix |

■Applicable Standard & Applicabl Number

| | | | |
|-------|-------------------------------|---|---|
| UL | UL 1414 | Across-The-Line Capacitors Antenna-Coupling and Line-By-Pass Components | ※ |
| CSA | CSA C22.2 No.1-94 | Across-the-line capacitors Antenna-Isolation and line-by-pass capacitors | |
| SEMKO | IEC 384-14, 1993 EN 132400 | Class X2 | ※ |
| DEMKO | | | |
| NEMKO | | | |
| FIMKO | | | |
| VDE | | | |
| SEV | | | |

*When applying for agency, please apply with not part code but type designation and rating such as ECQUG, 0.1 μ F.

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

■Specifications

| | |
|-----------------------|---|
| Reference standard | UL, CSA, SEMKO, DEMKO, NEMKO, FIMKO, VDE, SEV |
| Operating temp. range | -40 to +100°C (85°C max. on UL/CSA spec.) |
| Rated voltage | 275VAC [IEC384-14], 250VAC [UL, CSA] |
| Capacitance range | 0.01 to 1.0 μ F (E6) |
| Capacitance tolerance | \pm 10% (K), \pm 20%(M) |
| Dissipation factor | 1.0%max. (20°C 1kHz) |
| Withstand voltage | Between terminals : 575VAC, 1768VDC 60s Between terminals to enclosure : 2050VAC 60s |
| Insulation resistance | C \leq 0.33 μ F : 15000M Ω min. (20°C 100VDC 60s) C>0.33 μ F : 5000 M Ω · μ Fmin. (20°C 100VDC 60s) 2000M Ω min. (20°C 500VDC 60s) |

■ Dimensions in mm (not to scale)

The technical drawings show the physical dimensions of the capacitor: length $L \pm 0.5$, height $H \pm 0.5$, lead length $T \pm 0.5$, lead diameter $\phi d \pm 0.05$, and lead spacing $F \pm 0.4$. A detail shows the lead diameter $\phi \pm 0.14$ and a note 'P (Lead location limits from center)'. A perspective view labels the (A), (B), and (C) sides. A note indicates 'Solder-plated copper-clad steel wire'.

Marking Example

| STYLE | (A) side | (B) side | (C) side |
|-----------------------------|---|--|------------------------------------|
| 1 (0.01 to 0.22 μ F) | $\text{M } 0.01 \mu\text{F K}$ | ECQUG 275V~X2 40/100/21 Date Code | GMF MKT 132400 MJ 508 |
| 2 (0.33 to 1.0 μ F) | $\text{M } 1.0 \mu\text{F K}$ 275V~ X2 | ECQUG 40/100/21 MJ 508 | GMF MKT 132400 |

Note: only $\pm 10\%$ as cap. tol. be marked as "K".

■ Rating & Dimensions

| Part No. | Cap. (μ F) | Dimensions (mm) | | | | | | |
|-------------|-----------------|-----------------|-------------|-------------|------|----------|--------------|-------------|
| | | L ± 0.5 | T ± 0.5 | H ± 0.5 | F | ϕd | P | Q ± 0.4 |
| ECQU2A103□G | 0.01 | 12.5 | 5.0 | 11.5 | 10.0 | 0.60 | 0 ± 0.5 | 1.3 |
| ECQU2A153□G | 0.015 | 12.5 | 5.0 | 11.5 | 10.0 | 0.60 | 0 ± 0.5 | 1.3 |
| ECQU2A223□G | 0.022 | 12.5 | 6.0 | 12.5 | 10.0 | 0.60 | 0 ± 0.5 | 1.3 |
| ECQU2A333□G | 0.033 | 15.0 | 6.0 | 13.0 | 12.5 | 0.60 | 0 ± 0.5 | 1.3 |
| ECQU2A473□G | 0.047 | 15.0 | 6.0 | 13.0 | 12.5 | 0.60 | 0 ± 0.5 | 1.3 |
| ECQU2A683□G | 0.068 | 15.0 | 8.0 | 15.0 | 12.5 | 0.60 | 0 ± 0.5 | 1.3 |
| ECQU2A104□G | 0.1 | 15.0 | 8.0 | 15.0 | 12.5 | 0.60 | 0 ± 0.5 | 1.3 |
| ECQU2A154□G | 0.15 | 17.5 | 8.0 | 16.5 | 15.0 | 0.80 | 0 ± 0.5 | 1.3 |
| ECQU2A224□G | 0.22 | 17.5 | 9.0 | 17.5 | 15.0 | 0.80 | 0 ± 0.5 | 1.3 |
| ECQU2A334□G | 0.33 | 25.5 | 9.0 | 18.5 | 22.5 | 0.80 | 0 ± 0.5 | 1.5 |
| ECQU2A474□G | 0.47 | 25.5 | 10.5 | 20.0 | 22.5 | 0.80 | 0 ± 0.75 | 1.5 |
| ECQU2A684□G | 0.68 | 25.5 | 12.5 | 22.0 | 22.5 | 0.80 | 0 ± 0.75 | 1.5 |
| ECQU2A105□G | 1.0 | 25.5 | 15.5 | 24.5 | 22.5 | 0.80 | 0 ± 0.75 | 1.5 |

Cap.tol.code (K, M)