

Type CG Reliable Screw Terminal Aluminum Electrolytic Capacitor

85 °C, Screw Terminal Capacitors



Type CG screw terminal, aluminum electrolytic capacitors have excellent reliability and are good for 2000 hours at 85 °C at full rated voltage.

Highlights

- High reliability at 85 °C
 - Screw Terminal
 - Long Life
- RoHS Compliant

Specifications

Capacitance Range:	40 to 160,000 µF
Voltage Range:	10 to 450 WVdc
Capacitance Tolerance:	-10% +75% (10 - 150 WVdc) -10% +50% (151 - 450 WVdc)
Operating Temperature:	-40 °C to +85 °C
Ripple Current Multipliers:	Ambient Temperature

25 °C	35 °C	45 °C	55 °C	65 °C	85 °C
2.00	1.88	1.72	1.58	1.42	1.00

Rated Voltage	Ripple Multiplier				
	120 Hz	400 Hz	1000 Hz	2500 Hz	10 kHz
10 to 75	1.000	1.050	1.085	1.135	1.150
76 to 250	1.000	1.075	1.125	1.155	1.210
251 to 450	1.000	1.080	1.130	1.175	1.230

DC Leakage Current: $I \leq 3 \sqrt{CV}$ after 5 minutes
Not to exceed 4.0 mA

C = Capacitance in µF

V = Rated Voltage

I = Leakage current in µA

[Click here to see: Hardware & Mounting Options](#)

QA Stability Test: Apply WVdc for 2000 h @ 85 °C

- Capacitance change $\pm 15\%$ from initial limits
- DC leakage current: 200% of limit
- ESR: 175% of limit

[Click here to see: Mechanical Details](#)

Ratings

Cap (µF)	Catalog Part Number	Typical ESR		Max Ripple	
		120 Hz (Ω)	120 Hz +85 °C (A) RMS	120 Hz (Inches)	Length (Inches)
10 WVdc (15 Vdc Surge)					
160,000	CG164U010X5L	0.006	27.1	3	5.625
16 WVdc (20 Vdc Surge)					
2,500	CG252U016R2C	0.047	3.9	1.375	2.125
6,500	CG652U016R2C	0.039	4.3	1.375	2.125
10,500	CG1052U016V3C	0.027	7.6	2.000	3.125

Cap (µF)	Catalog Part Number	Typical ESR		Max Ripple	
		120 Hz (Ω)	120 Hz +85 °C (A) RMS	Dia. (Inches)	Length (Inches)
16 WVdc (20 Vdc Surge)					
12,000	CG123U016R3C	0.024	6.4	1.375	3.125
18,000	CG183U016R4C	0.018	8.3	1.375	4.125
21,000	CG213U016U3C	0.012	10.5	1.750	3.125
27,000	CG273U016V3C	0.012	11.4	2.000	3.125
40,000	CG403U016V4C	0.009	14.7	2.000	4.125

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