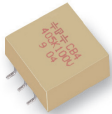


Capacitor Type

CB4G



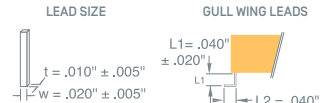
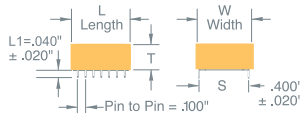
Electrical Schematic



Non-polarized

Second Generation High Frequency Switching Power Supply Capacitors

- Ideal for 48 volt bus input & output
- Low impedance (ESR/ESL) construction
- Self-healing—Avoids shorts
- The reliable solution to ceramic and tantalum capacitor faults at elevated voltage
- Made for >100KHz switching power trains and reflected RFI
- Flat surface for pick and place
- Surface-mount capability
- Operating temperature range: -55°C to 125°C
- High ripple current/High capacitance
- Volumetrically efficient
- Made in U.S.A.



100 VDC / 80 VAC

PF Code	Value μ F	W Max	T Max	L Max	ESR @500 KHz	RMS Current @500 KHz (A)	# Leads per side	Lead Configuration	Case	Part Number
405	4.0	0.500 (12.7)	0.250 (6.3)	0.450 (11.4)	0.007	11.5	3	SMD	CB4G	405K100CB4G _ _
475	4.7	0.500 (12.7)	0.250 (6.3)	0.525 (13.3)	0.006	12.2	3	SMD	CB4G	475K100CB4G _ _
106	10.0	0.500 (12.7)	0.250 (6.3)	0.995 (25.3)	0.003	15.3	7	SMD	CB4G	106K100CB4G _ _

Dimensions in inches, metric (mm) in parenthesis.

Tolerance: K ($\pm 10\%$) standard, J ($\pm 5\%$) available

RoHS part number information:

No suffix indicates RoHS-5 compliant standard part number. RoHS-5 product does not contain five of the RoHS banned materials (Hg, CrVI, Cd, PBB and PBDE) in levels exceeding the industry defined limits.

Component lead wires are plated with Sn / Pb and match conventional SnPb board assembly requirements.

For a RoHS-6 compliant part, add a -FA suffix. RoHS-6 product does not contain any of the six RoHS banned materials (Hg, CrVI, Cd, PBB, PBDE and Pb) in levels exceeding the industry defined limits.

Component lead wires are plated with Sn.

Electrical	Performance	Physical				
Capacitance Range: 2.0 μF to 10.0 μF @ 1KHz Tolerance: Available in K ($\pm 10\%$) standard Voltage Range: 100 VDC Dissipation Factor: $\leq 1.0\%$ @ 25°C, 1KHz Insulation Resistance: $\geq 1,000$ Megohms $\times \mu$F Need not exceed 1,000 Megohms. <table><tr><td>Rated Voltage</td><td>≤ 100 VDC</td></tr><tr><td>Test Voltage</td><td>10 VDC</td></tr></table>	Rated Voltage	≤ 100 VDC	Test Voltage	10 VDC	Accelerated DC Voltage Life Test: 1,000 Hours, 85°C, $1.25 \times$ Rated VDC $\Delta C/C \leq 5\%$ DF $\leq 1.0\%$, 1KHz, 25°C IR $\geq 1,000$ Megohm $\times \mu$F Need not exceed 1,000 Megohms Moisture/Humidity Test: 85°C / 85% RH / 21 days Applied Voltage: zero bias $\Delta C/C \leq 7\%$ DF $\leq 1.0\%$, 1KHz, 25°C IR $\geq 30\%$ of initial limit Long Term Stability: After 2 years storage, standard environment $\Delta C/C \leq 2\%$	Construction: Non-inductively constructed with metallized poly- ester dielectric (polyethylene terephthalate). Parallel plate-multilayer polymer (MLP) design. Electrode: Aluminum metallization. Case: UL94V-0 rated premolded shell Lead-Frame Material: Tinned Cu Alloy Vibration: Mil Std 202 Method 204D Solder Resistance: Thru-hole wave: 260°C, 5 Sec. $\Delta C/C \leq 2\%$ SMD reflow: 220°C, 30 Sec. $\Delta C/C \leq 2\%$ Lead Spacing: .400" (10.0mm) nominal CB4 Marking: +PF type, capacitance code, tolerance code, voltage and date code Packaging: Tape/Reel 13" reel. Units are dry-packed with desiccant in a moisture barrier bag (MBB). Moisture Sensitivity Level (MSL): 4 per IPC/JEDEC J-STD-020; level indicated on package.
Rated Voltage	≤ 100 VDC					
Test Voltage	10 VDC					

Evans Trusted Brands. Single Source.
Hi-Rel Capacitors for Mission Critical Systems.

Uniting four industry leaders—Evans, Paktron, UTC, and Eulex—Evans Group delivers the industry's most specialized and comprehensive capacitor portfolio. Together, we provide power-dense, high-reliability solutions engineered for mission-critical environments across defense, aerospace, energy, and advanced RF systems.

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