

KELTRON COMPONENT COMPLEX LTD.



ISO 9001-2015 Certified Company

TECHNICAL DATA SHEET

Rating	: 500F/2.7V
Series	: GA
Size	: Dia : $\Phi 35\text{mm} \pm 1\text{mm}$: Length : $70\text{mm} \pm 2\text{mm}$
Capacitance	: 500F
Rated voltage	: 2.7VDC
DC Leakage Current@72hrs	: 1.1mA max.
ESR max. @DC	: $14\text{m}\Omega$
Temp category	: -40°C to $+55^\circ\text{C}$
Keltron part number	: GA501CQDKLBG
Endurance category	: $+55^\circ\text{C} / 1000\text{Hrs}$

A. LIFE TEST SUMMARY

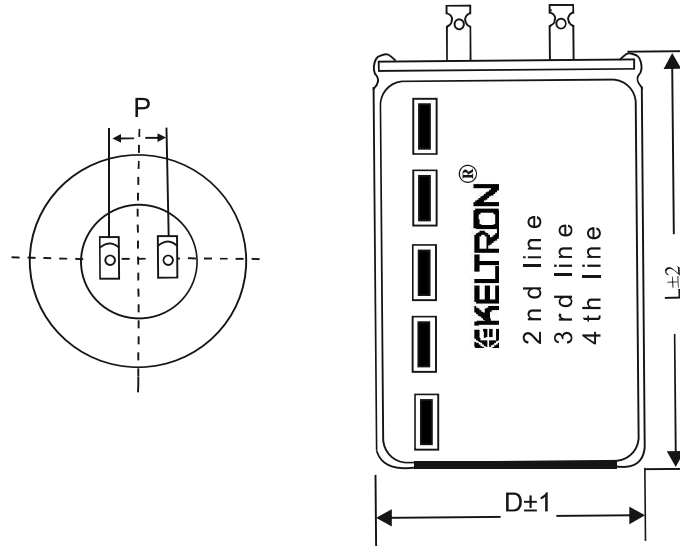
Tests	Life cycle	High temperature load life	Storage temperature characteristics	Vibration resistance	Humidity
Test condition Parameters	Capacitors are cycled between rated voltage and half rated voltage under constant current at $+30^\circ\text{C}$ for 300000 cycles	Temperature: $+55^\circ\text{C}$ Voltage: Rated voltage Test duration: 1000hrs	Storage duration :2years No load temperature: $+35^\circ\text{C}$	Amplitude :1.5mm Frequency: 10-55Hz Direction: x,y,z for 2 hrs each	Voltage: Rated voltage RH: 90% Temperature: $+50^\circ\text{C}$ Test duration: 1000hrs
Capacitance	$\leq 30\%$ of initial measured capacitance value	$\leq 30\%$ of initial measured capacitance value	$\leq 30\%$ of initial measured capacitance value	$\leq 30\%$ of initial measured capacitance value	$\leq 30\%$ of initial measured capacitance value
ESR	$\leq 200\%$ of initial measured value	$\leq 200\%$ of initial measured value	$\leq 200\%$ of initial measured value	$\leq 200\%$ of initial measured value	$\leq 200\%$ of initial measured value
Appearance	No remarkable defects	No remarkable defects	No remarkable defects	No remarkable defects	No remarkable defects

As a part of continuous development, Design and Specifications are subject to change without notice

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PHYSICAL OUTLINE & PRINTING DETAILS



1 st line : KELTRON	3 rd line : 500F GA	Dia D : 35mm	Pitch P : 14mm
2 nd line : SUPERCAP	4 th line : 2.7VDC XX*	Height L : 70mm	

* XX indicates date code

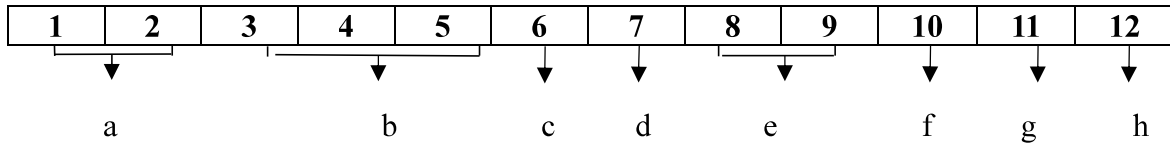
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C. GENERAL DETAILS

C.1 Capacitor ordering information



a	Series code	EA – Supercapacitor Radial Series GA – High CV Supercapacitors XA-Axial Supercapacitors BA – Super capacitor bank									
b	Capacitance value code	Capacitance (F)	0.1	1	0.25	3.3	10	100	350	500	1000
		Code	R10	010	R25	3R3	100	101	351	501	102
c	Voltage code	B-2.5V C-2.7V									
d	Tolerance code	Tolerance	±5%	±10%	±20%	±30%	-20%/+30%				
		Code	J	K	M	N	Q				
e	Size code	Ref. dimensional specification (Eg:CG,CK)									
f	Terminal type	Terminal type	R	M	N	L	S				
		Code	Radial	Snap-in power terminal and mount terminal	Snap-in power terminal only	Lug terminal	Screw terminal				
g	Packing type	B-Bulk									
h	Application / Purpose/custom	G-General									

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