

**TECHNICAL DATA SHEET**

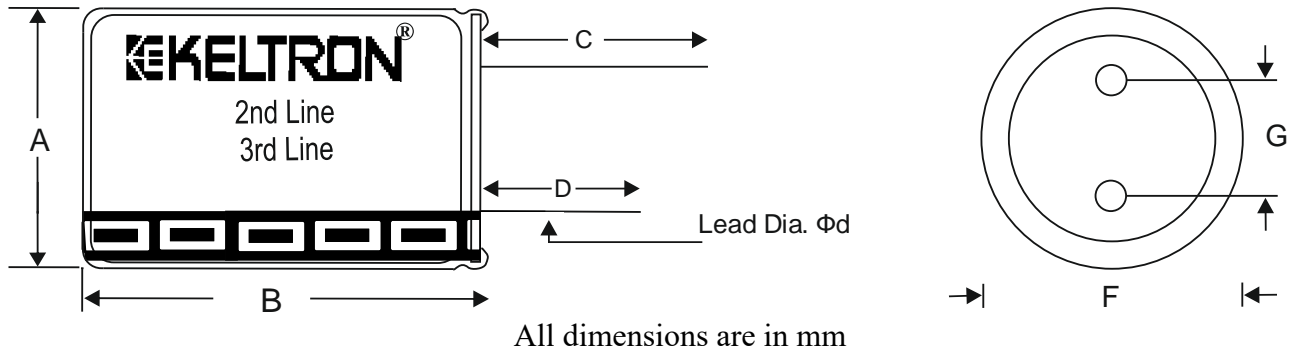
Rating	: 5F/2.7V
Series	: EA
Size	: Dia : $\Phi 10\text{mm} \pm 0.5\text{mm}$ : Length : $21\text{mm} \pm 1\text{mm}$
Capacitance	: 5F -20% to +30%
Rated voltage	: 2.7VDC
Leakage Current@72hrs	: 15 $\mu$ A max.
ESR max. @DC	: 180 m $\Omega$
Temp category	: -40°C to +55°C
Keltron part number	: EA050CQCGRBG
Endurance category	: +55°C /1000Hrs

**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°C for 300000 cycles	Temperature: +55°C Voltage: Rated voltage Test duration: 1000hrs	Storage duration :2years No load temperature: +35°C	Amplitude :1.5mm Frequency: 10-55Hz Direction: x,y,z for 2 hrs each	Voltage: Rated voltage RH: 90% Temperature: +50°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

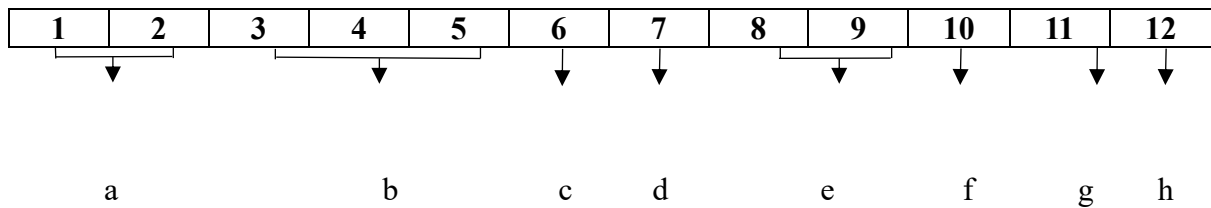
**B. PHYSICAL OUTLINE & PRINTING DETAILS**



Diameter (A)	:10±0.5mm	Cathode length C	:21±3mm	Outer Diameter F	:10±0.5mm
Length (B)	:21±1mm	Anode length D	:27±3mm	Pitch G	:5±0.5mm
Lead Dia Φd	:0.6mm				
1st line	: KELTRON	2nd line	:5F EA	3rd line	: 2.7V S1

**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									

## **C.2 Marking on the capacitor**

Marking specifications of Supercapacitors are detailed below. Below mentioned details are printed on blue coloured Poly Ethylene Terephthalate sleeve with black print.

- a) Manufacturer's name and logo 
- b) Capacitor series
- c) Rated working voltage in V
- d) Date code(Year-Month)
- e) Negative terminals are indicated on the sleeve

### **Date code**

Year code

Year	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Code	M	N	P	R	S	T	U	V	W	X

Year	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Code	A	B	C	D	E	F	H	J	K	L

Year code repeats after each cycle of 20 years

### **Month code**

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Code	1	2	3	4	5	6	7	8	9	O	N	D

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