

# **CAP-XX Dual Cell Supercapacitors**

### Unparalleled combination of performance and value

The CAP-XX dual cell **supercapacitor** range provides excellent peak power performance at a very competitive cost.



## Excellent peak power delivery in a dual cell supercapacitor module

The new CAP-XX GY25R4 range of dual cell supercapacitor modules provides excellent pulse power handling characteristics resulting from the combination of very high capacitance and relatively low ESR.

Each GY25R4 series module is available with either passive or active balancing to equalize cell voltages and minimize leakage current.

The GY25R4 series provides a cost-effective solution to solve the power performance limitations of low power batteries in a range of consumer and industrial applications.

When used in conjunction with a low power energy source such as an energy harvester and or low power battery, the CAP-XX GY25R4 series of cylindrical supercapacitors enable extended back up time, longer battery life, and the provision of peak power as required.

Long life

• Meet environmental

operation (RoHS)

standards for disposal and

### **Main features**

- High pulse power capability
- Low ESR
- Low leakage current

### Applications

- Energy harvesting for wireless sensors
- Energy harvesting for wireless HVAC sensors and actuators
- Peak power support for GSM/GPRS transmission
- Last gasp power for remote meter status transmission
- Peak power support for locks and actuators
- Peak power support for portable drug delivery systems
- Short term bridging power for battery hot swaps



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## **CAP-XX Dual Cell Supercapacitor**

#### **Dual Cell Module Part Numbering Explanation**

G	Y	Ν	VVV	dd	mm	S	CCC	R	В
Model	Cylindrical	<b>no of cells</b> 2	<b>Voltage</b> 5R4 = 5.4V	<b>Diameter</b> 6C = 6.3mm 08 = 8.0mm 10 = 10mm 1B = 12.5mm		<b>Tolerance</b> M ± 20% S +30% / -10% V +25% / -5%	Two digits +	<b>Lead format</b> R = shrink wrap/radial S = plastic/radial	Balancing 0 = no balancing R = Resistor* A = Active*

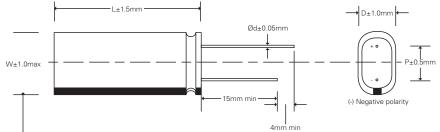
### **High Capacitance Supercapacitor Modules**

Series-Connected Radial Lead Type / Rated Voltage 5.4V / Temperature Range -40°C to +65°C

CAP-XX Part No.	Cap (Capacitance)	Rated Voltage (v)	Diameter (mm)	Length (mm)	DCL max @ 72 Hrs (μΑ)*	ESR max @ 1KHz (mΩ)	ESR max @ DC (mΩ)	Power Density (W/kg)	Max Energy (Wh)	Energy Density (Wh/kg)
Shrink Wrap										
GY25R40814S474R0	0.47	5.4	8	14	2	380	1720	1209	0.0019	1.00
GY25R40818S105R0	1	5.4	8	18	6	250	730	2274	0.0041	1.80
GY25R40822S155R0	1.5	5.4	8	22	10	200	590	2526	0.0061	2.40
GY25R41022S255R0	2.5	5.4	10	22	20	180	360	2396	0.0101	2.50
GY25R41B22S505R0	5	5.4	12.5	22	25	120	200	2606	0.0203	3.00
GY25R41B32M755R0	7.5	5.4	12.5	32	65	90	160	2396	0.0304	3.30
Plastic Package										
GY25R40916S474S0	0.47	5.4	9	16	2	380	1720	1209	0.0019	1.20
GY25R40920S105S0	1	5.4	9	20	6	250	730	2274	0.0041	1.90
GY25R40924S155S0	1.5	5.4	9	24	10	200	590	2526	0.0061	2.70

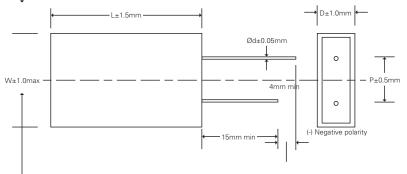
\*Leakage current will be affected by the balancing solution used. Contact CAP-XX to determine which balancing solution best suits your design.

### Skrink Wrap Type



D (mm)	W (mm)	P (mm)
8	16	11.5
10	20	15.5
12.5	25	18.0

### Plastic Type



D (mm)	W (mm)	P (mm)
9	18	11.5

