

Product Bulletin

GY12R7 SNAP-IN TERMINAL SERIES CELLS

Revision 1.0, July 2022

Electrical Specifications

The GY12R7 snap-in terminal series of supercapacitors are 2.7V cylindrical cells offering excellent value, providing intermediate capacitance between radial leads and LASER weld automotive supercapacitor cells.

Part numbering code

| G | Y | N | vvv | dd | mmm | S | ccc | R |
|--------------|--------------------|-------------------------|------------------------------|------------------------------|---------------------------------|--|--|---|
| Model | Cylindrical | no of cells 1 | Voltage 2R7 = 2.7V | Diameter 30 = 30mm | Length (mm) 045= 45mm | Tolerance M \pm 20% S +30% / -10% V +25% / -5% | μF Two digits + number of zeros. 158 = 1500000000 μ F = 1500F | Lead format S = 2 pins snap-in W = 4 pins snap-in C = 2 flat tabs |

Rated Voltage: 2.7V, Temperature Range: -40°C to +65°C

| CAP-XX Part no. | Cap (F) | ESR _{DC} Max (m Ω) | ESR Max @ 1KHz (m Ω) | IL max ¹ @ 72 Hrs (mA) | Diameter (mm) | Length (mm) | Mass (gm) |
|------------------|---------|-------------------------------------|------------------------------|-----------------------------------|---------------|-------------|-----------|
| GY12R722045V107S | 100 | 12 | 8 | 0.3 | 22 | 45 | 21 |
| GY12R722045V127S | 120 | 12 | 8 | 0.3 | 22 | 45 | 21 |
| GY12R722055V167S | 160 | 12 | 8 | 0.5 | 22 | 55 | 30 |
| GY12R725050V157S | 150 | 11 | 7 | 0.5 | 25 | 50 | 30 |
| GY12R730050V207S | 200 | 10 | 6 | 0.7 | 30 | 50 | 36 |
| GY12R730050V227S | 220 | 10 | 6 | 0.7 | 30 | 50 | 39 |
| GY12R730050V247S | 240 | 9 | 5 | 0.7 | 30 | 50 | 40 |
| GY12R735060V357C | 350 | 3.5 | 3 | 1 | 35 | 60 | 73 |
| GY12R735060V407C | 400 | 3.2 | 2.8 | 1 | 35 | 60 | 73 |
| GY12R735060V477C | 470 | 3.5 | 3 | 1.3 | 35 | 60 | 73 |
| GY12R735067V507C | 500 | 3.4 | 2.9 | 1.3 | 35 | 67 | 76 |
| GY12R735070V607C | 600 | 3 | 2.5 | 1.5 | 35 | 70 | 88 |
| GY12R740070V807C | 800 | 3.5 | 3 | 2 | 40 | 70 | 115 |

Notes:

- DC Leakage current decays over time until it reaches equilibrium value. Value quoted is maximum after 72hrs at rated voltage and room temperature.

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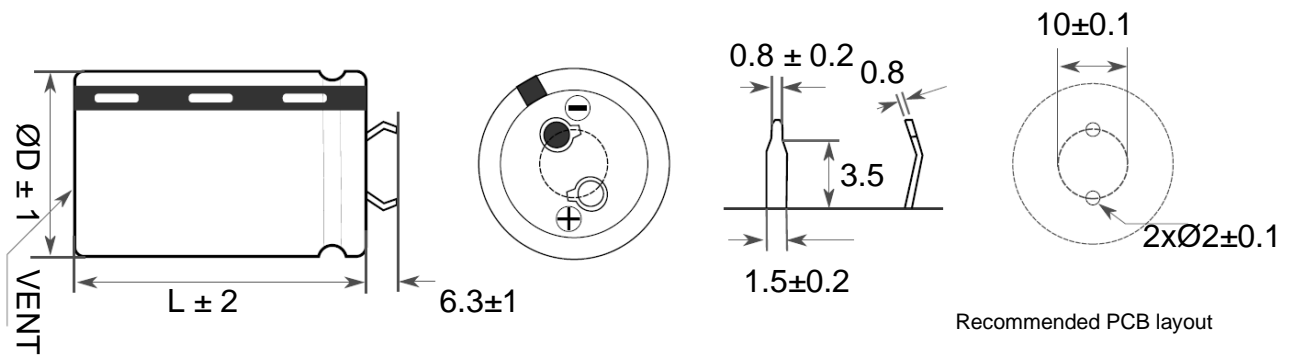
Applications:

- High power delivery
- Regenerative energy capture
- Improve the cycle life of large batteries
- Power smoothing for where fuel cells are used
- Load regulation for very high-power step changes

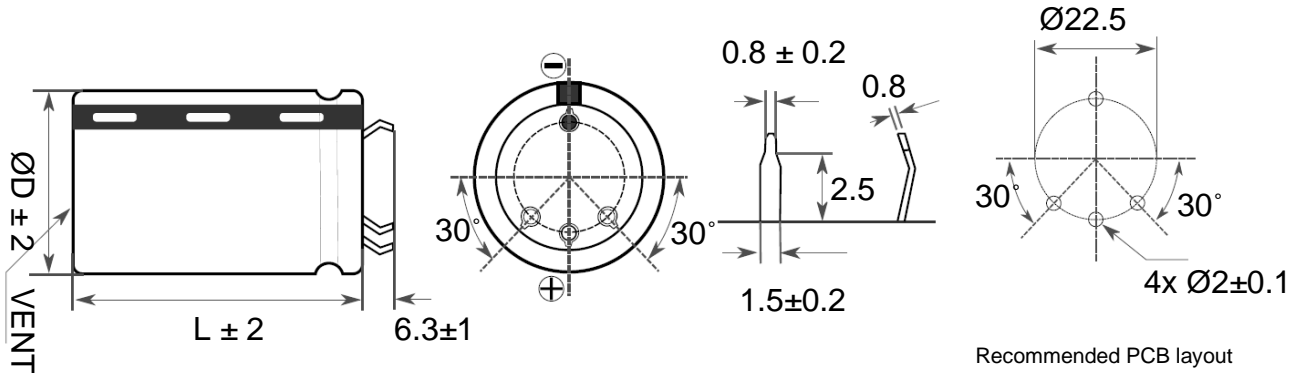
Mechanical drawing:

All dimensions in mm

S type terminals:



W type terminals, only available $\text{ØD} \geq 35\text{mm}$:



C type terminals, only available $\text{ØD} \geq 35\text{mm}$:

