

# KW-5R5C105-R alternative

1F Supercapacitor -20 → +80% Tolerance, 5.5V dc, Through Hole



## KW Supercapacitors alternatives series

### FEATURES

- Able to be used at wide temperature from -40°C to 85°C
- Long life Endurance : 1,000 hours at +85°C
- RoHS directive compliant / No Explosion Safety

### APPLICATIONS

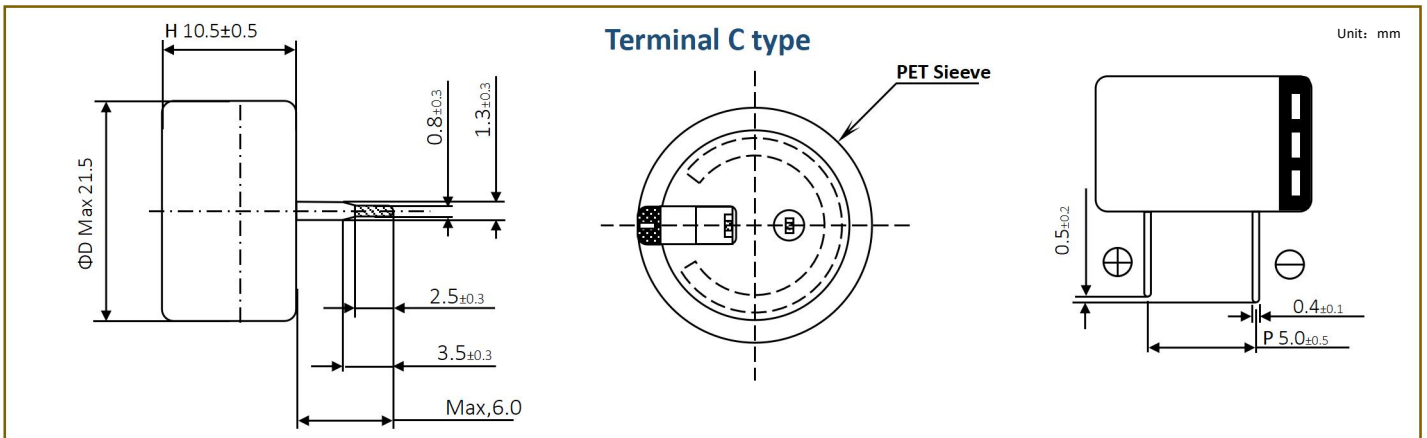
- Memory back-up for Video, Audio, Cameras, CCTV, Printer, Camcorder, Telephones, Car stereo, E-meter, Toy, Computer, Notebook PC, Rice cooker, Home network etc .



|               |            |             |          |          |          |
|---------------|------------|-------------|----------|----------|----------|
| <b>KW alt</b> | <b>5R5</b> | <b>474</b>  | <b>C</b> | <b>F</b> | <b>*</b> |
| Series        | Voltage    | Capacitance | Type     | RoHS     | Special  |

## GENERAL SPECIFICATIONS / DIMENSIONS

| Item  | Performance  |      |      |     |
|---|--|------|------|-----|
| Operating temperature                                 | -40°C to +85°C   |      |      |     |
| Capacitance range                                     | 0.47F to 1.0F  |      |      |     |
| Capacitance tolerance                                 | - 20% to + 80% (at 25°C)   |      |      |     |
| Rated voltage   | 5.5 VDC  |      |      |     |
| Nominal capacitance & Resistance                      | Nominal capacitance (F)  | 0.47 | 0.68 | 1.0 |
|   | Nominal resistance (Ω)   | 20   | 20   | 20  |
| Temperature characteristics                           | Capacitance change: Within ±30% of initial measured value at +25°C<br>-40°C: within 7 times of the value of 25°C ; 85°C: within 5 times of the value of 25°C |      |      |     |
| Endurance<br>(At rated voltage & max. operating temp) | After 1000 hours:<br>Capacitance change: ±30% of initial rated value<br>Internal resistance: Within 4 times of initial specified value                       |      |      |     |
| Shelf life  | After 2 years at 25°C without load, the capacitor shall meet the specified endurance limits.   |      |      |     |



## STANDARD PRODUCTS

| Part Number              | Working Voltage (V DC) | Rated Cap. (F) | Internal resistance (Ω) at 1 kHz | C type(mm) |      |     |
|--------------------------|------------------------|----------------|----------------------------------|------------|------|-----|
|                          |                        |                |                                  | ØD         | H    | P   |
| KW-5R5-474-R alternative | 5.5                    | 0.47           | ≤20                              | 21.5       | 10.5 | 5.0 |
| KW-5R5-684-R alternative | 5.5                    | 0.68           | ≤20                              | 21.5       | 10.5 | 5.0 |
| KW-5R5-105-R alternative | 5.5                    | 1.0            | ≤20                              | 21.5       | 10.5 | 5.0 |