

Newsletter - Nesscap Ultracapacitors - New Product Release

Nesscap is proud to introduce the **XP** product series – the newest addition to the company’s highly regarded line of small cell ultracapacitors. **XP** products are engineered specifically for applications that require extra protection from high degrees of ambient humidity in which the escape of electrolyte vapor can negatively affect PCB surfaces. Under biased humidity test conditions, **XP** products mitigate this impact at least **three times longer** than Nesscap’s equivalent standard cells and other benchmarked competitive offerings. **XP** products are offered in a range of capacitances, from 3F to 50F, and have been extensively tested to ensure strict performance standards and compliance with RoHS, UL, and REACH.

Features

- Highly efficient rugged component
 - Biased Humidity Test Conditions (at VR, 60°C, and 90% RH)
- Low equivalent series resistance
 - Patented electrode technology and contact methods enables lowest resistance
- Wide Temperature Range
 - Very good temperature performance down to -40°C and up to +65°C
- Long Operational Life
 - Offers >500k cycles (nominal voltage down to half voltage)
- Patent Pending for improved construction and sealing



Applications

- | | | |
|--|---|--|
| <input type="checkbox"/> Advanced Metering | <input type="checkbox"/> Back-Up Power | <input type="checkbox"/> Smoke Detectors |
| <input type="checkbox"/> Actuators | <input type="checkbox"/> Burst Power | <input type="checkbox"/> Telematics |
| <input type="checkbox"/> Automotive | <input type="checkbox"/> Emergency Lighting | <input type="checkbox"/> Manual Tools |
| <input type="checkbox"/> Medical devices | <input type="checkbox"/> And many others | |

| NEW XP Product Series | | | | | | | |
|-----------------------|--------------------|--------|---------------|-----------|-----------|-----------|-----------------------|
| Nesscap Part Number | Capacitance Rating | DC-ESR | Terminal Type | ROHS | REACH | UL | Biased Humidity Life* |
| ESHSR-0003C0-2R7UC | 2.7V 3F | <55 mΩ | Radial Lead | Compliant | Compliant | Compliant | 2,000 Hrs |
| ESHSR-0005C0-2R7UC | 2.7V 5F | <35 mΩ | Radial Lead | Compliant | Compliant | Compliant | 2,500 Hrs |
| ESHSR-0006C0-2R7UC | 2.7V 6F | <33 mΩ | Radial Lead | Compliant | Compliant | Compliant | 2,000 Hrs |
| ESHSR-0010C0-2R7UC | 2.7V 10F | <30 mΩ | Radial Lead | Compliant | Compliant | Compliant | 2,500 Hrs |
| ESHSR-0025C0-2R7UC | 2.7V 25F | <25 mΩ | Radial Lead | Compliant | Compliant | Compliant | 3,000 Hrs |
| ESHSR-0050C0-2R7UC | 2.7V 50F | <16 mΩ | Radial Lead | Compliant | Compliant | Compliant | 3,000 Hrs |

* Biased Humidity Test (at VR, 60°C, and 90% RH)

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