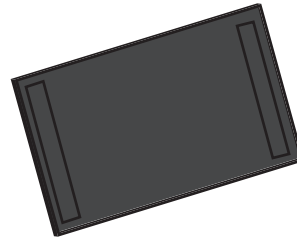


## High Stability & Reliability Capacitor

**HSSC0805 100nF**  
**935.131.426.610**

The IPDIA Technology offers industry leading performances relative to failure rate with a FIT<0.017. This technology also offers high reliability, up to 10 times better than alternative capacitor technologies & eliminates cracking phenomena.

This silicon based technology is RoHS compliant and compatible with lead free reflow soldering process.



### Key Applications

- All Demanding Applications such as Military, Aerospace, Automotive Industry
- High Stability Applications
- Decoupling / Filtering / Charge Pump (ie. Pacemakers / Defibrillators)
- Devices with Battery Operations
- Replacement of X7R and NP0
- Downsizing

### Key Features

- High Stability up to 200°C;
  - Temperature <math>\pm 0.5\%</math> (-55 to +150°C)
  - Voltage <math>< 0.1\%</math> / V
  - Negligible Ageing <math>< 0.001\%</math> / 1000hours
- Unique High Capacitance in EIA/1005 Package Size, up to 1.5nF
- High Reliability (FIT <math>< 0.017</math> parts / billion hours)
- Low Leakage Current down to 100pA
- Low ESL and Low ESR
- Suitable with Lead Free Reflow-Soldering

### Part Number

**935.132.**

**B. 2**

**S.**

**U.**

**XX**

ie. 1.5nF/0201 case (HSSC type) → 935.131.422.415

↓  
**Breakdown**

**Voltage:**  
4 = 11V  
7 = 30V

↓  
**Size:**

2 = 1005  
3 = 0201  
4 = 0402

↓  
**Unit:**

0 = 10f    5 = 1n  
1 = 0.1p    6 = 10n  
2 = 1p    7 = 0.1u  
3 = 10p    8 = 1u  
4 = 0.1n    9 = 10u

↓  
**Value**

| Parameters                       | Value  |
|----------------------------------|--|
| Capacitance Range                | 1.5nF  |
| Capacitance Tolerances           | ±15%   |
| Operating Temperature Range      | -55°C to 150°C                                 |
| Storage Temperatures             | -70°C to 165°C                                 |
| Temperature Coefficient          | <math>\pm 0.5\%</math>, from -55°C to +150°C   |
| Breakdown Voltage (BV)           | 11VDC  |
| Capacitance Variation Vs. RVDC   | 0.1% /V (from 0V to RVDC)                      |
| Equivalent Serial Inductor (ESL) | Max 100pH                                      |
| Equivalent Serial Resistor (ESR) | Max 200mΩ                                      |
| Insulation Resistance            | 100GΩ min @ 3V, from -55°C to +150°C           |
| Ageing                           | Negligible, <math>< 0.001\%</math> / 1000h     |
| Reliability                      | FIT <math>< 0.017</math> parts / billion hours |
| Capacitor Height                 | Max 400μm                                      |