

### Low Profile Silicon Capacitor

The IPDiA Technology features High Reliability, up to 10 times better than alternative capacitor technologies & eliminates cracking phenomena.

Silicon Capacitor Technology also offers a very stable value over the full operating voltage & temperature range with a high & stable Insulation Resistance.

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

#### **Key Applications**

- All Demanding Applications such as Medical, Telecom, Computer Industries
- High Reliability Applications
- Decoupling / Filtering / Charge Pump (ie. Pacemakers, Mobile Phones)
- Devices with Battery Operations
- Suitable for Embedded Technologies
- Extreme Miniaturization

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# LPSC0402 33nF 935.121.424.533





#### **Key Features**

• Ultra Low Profile (100µm)
<ul> <li>High Stability of Capacitance Value;</li> </ul>
• Temperature <±0.5% (-55 to +150°C)
• Voltage < 0.1 % / V
<ul> <li>Negligible Capacitance Loss through Ageing</li> </ul>
• Unique High Capacitance in EIA/0201 Package Size, up to
10nF
• High Reliability (FIT < 0.017 parts / billion hours)

- High Reliability (FIT < 0.017 parts / billion hour
- Low Leakage Current < 100pA
- Low ESL and Low ESR
- Suitable with Lead Free Reflow-Soldering

### Part Number

935.132.	<u>B.</u> 2	<u>S.</u>	<u>U.</u>	xx	
	¥ Breakdown	v Size:	V Unit:	↓ Value	
ie. 10nF/0201 case (LPSC type) → 935.121.423.510	Voltage:	2 = 1005	0 = 10f 5 = 1r		
	4 = 11V	3 = 0201	1=0.1p 6=10	n	
	7 = 30V	4 = 0402	2 = 1p 7 = 0.	1u	
			3 = 10p 8 = 1u	I	
			4 = 0.1n 9 = 10	u	

Parameters	Value
Capacitance Range	10nF
Capacitance Tolerances	±15%
Operating Temperature Range	-55°C to 150°C
Storage Temperatures	-70°C to 165°C
Temperature Coefficient	<±0.5%, from -55°C to +150°C
Breakdown Voltage (BV)	11VDC, 30VDC
Capacitance Variation Vs. RVDC	0.1% /V (from 0 V to RVDC)
Equivalent Serial Inductor (ESL)	Max 100pH
Equivalent Serial Resistor (ESR)	Max 400mΩ
Insulation Resistance	100GΩ min @ 3V, 25°C
Ageing	Negligible, < 0.001% / 1000h
Reliability	FIT < 0.017 parts / billion hours
Capacitor Height	Max 100µm