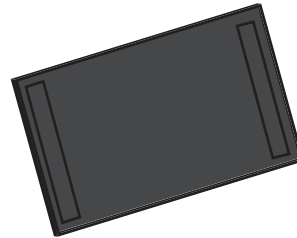


High Stability & Reliability Capacitor

HSSC0402 1nF
935.131.424.410

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 $\pm 0.5\%$ (-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
	↓ Breakdown	↓ Size:	↓ Unit:	↓ Value
ie. 1.5nF/0201 case (HSSC type) → 935.131.422.415	Voltage: 4 = 11V 7 = 30V	2 = 1005 3 = 0201 4 = 0402	0 = 10f 5 = 1n 1 = 0.1p 6 = 10n 2 = 1p 7 = 0.1u 3 = 10p 8 = 1u 4 = 0.1n 9 = 10u	

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	$\pm 0.5\%$, 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