

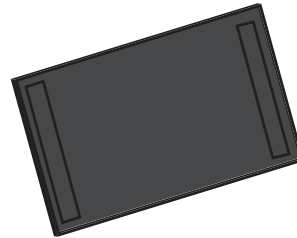
High Temperature Silicon Capacitor

HTSC0603 100nF
935.132.425.610

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 Applications up to 200°C, such as Military, Aerospace, Automotive Industry
- High Stability Applications
- Decoupling / Filtering / Charge Pump (ie. Motor Management, Temperature Sensors)
- Devices with Battery Operations
- Replacement of X7R and C0G Pump
- Downsizing

Key Features

- High Stability up to 200°C;
 - Temperature $\lt; \pm 1\%$ (-55 to +200°C)
 - Voltage $\lt; 0.1\%$ / V
 - Negligible Capacitance Loss through Ageing
- Unique High Capacitance in EIA/0201 Package Size, up to 10nF
- High Reliability (FIT $\lt; 0.017$ 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. 10nF/0201 case (HTSC type) → 935.132.423.510	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	$\lt; \pm 0.5\%$, from -55°C to +150°C
Breakdown Voltage (BV)	11VDC
Capacitance Variation Vs. RVDC	0.1% / V (from 0 V 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, $\lt; 0.001\%$ / 1000h
Reliability	FIT $\lt; 0.017$ parts / billion hours
Capacitor Height	Max 400μm