

NIC PRODUCT PROFILE

NSMX Series

SMT Wound Element Film Chip Capacitor

Features

- 100VDC rating (derated above +105°C)
- SAC Alloy Compatible (Reflow to +260°C)
- High Performance [PPS Film](#)
- Better stability over voltage and time than Class II MLCCs (X7R/X5R)
- Lower dielectric absorption characteristic than MLCCs or PET film capacitors
- Lower dissipation factor than MLCCs for higher efficiency designs
- Wound construction is superior to stacked film construction in Damp Heat - Humidity Testing

Product Family: Film Capacitors

Desc: Surface Mount (SMT) Wound Element Film Chip Capacitors

NIC Specification Data Sheet: <http://www.niccomp.com/Catalog/nsmx.pdf>

**PARTS IN
NIC
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www.NICcomp.com/QK

CHARACTERISTICS:

Temperature Range : -40°C~+125°C (voltage derated above 105°C)

Rated Voltage : 100VDC

Capacitance : 0.01uF ~ 0.22uF

Capacitance Tolerance : ±5% **J** ±10% **K**

Low Dissipation Factor (DF) : <0.15%(1KHz), <0.25%(100KHz)

DWV : 150VDC **Insulation Resistance (IR) :** 15,000MΩ Min.

Sizes (mm) : 5.7 x 4.5 ~ 10.2 x 7.2 (PDF Table Pg 2)

APPLICATIONS:

- Inverter Circuits
- LCD Backlight
- Car Navigation
- GPS Equipment
- Gaming
- Point-Of-Sale
- Data Acquisition
- Industrial Controls
- Test & Instrumentation
- Data Communication
- Power Management
- Transportation
- Medical Equipment
- Security & Alarm
- High-End Audio

Key Parameters - Tips - Buzz Words

NSMX Advantages:

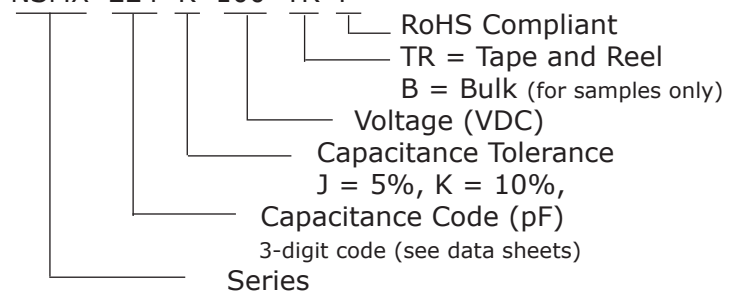
- 100VDC rating (does not suffer from MLCC voltage coefficient issues)
- Better reflow soldering heat rating than stacked SMT film types
- PPS has low dielectric absorption, ideal for use in A/D conversion circuits
- A/D converters are used in digital desk phones, cellphones (sound waves into PCM code)
- CCD - CMOS chips in digital cameras, camcorders and scanners

Buzz Words: Sample & Hold, Integration Capacitor, Modem, DSP, CCD, PCM, Codec



PART NUMBERING SYSTEM:

NSMX 224 K 100 TR F



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