# element 14 Your Electronic Engineering Resource



## SMP253MA Series Class Y2 Metalized Paper SMD Capacitors

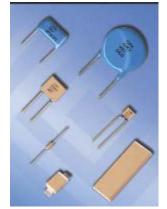
#### **General Description:**

SMP253 series capacitors are metalized paper SMD capacitors, The capacitors are intended for use as interference suppressors in Y2 applications.

Multi-layer metalized paper. Encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0.

The capacitors have rated voltage of 250VAC 50/60 Hz , with 0.001 – 0.0047  $\mu\text{F}$  range.

The 100% screening factory test is carried out at 3000 VDC. The voltage level is selected to meet the requirements in applicable equipment standards.

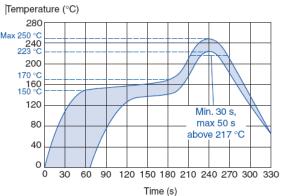


#### **Key Features:**

- Rated voltage: 250 VAC 50/60 Hz
- Capacitance range: 0.001 0.0047 µF
- Capacitance tolerance: ± 20%
- Temperature range: -40 to +100°C
- Climatic category IEC: 40/100/56/B
- Approvals: S, UL, CSA
- Dissipation factor tanδ: ≤ 1.3 % at 1 kHz
- Insulation resistance: ≥ 12000 MΩ Measured at 500 VDC after 60 s, +23°C
- Test voltage between terminals: The 100% screening factory test is carried out at 3000 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test.

### **Applications:**

- Interference suppressors in Y2 applications, &
- Line-to-earth.



#### **Related Products Information:**

Mfr Part #	Farnell #	Newark #	Description
SMP253MA4100MTR24	1789678	-	CAPACITOR, Y2, 250V, 1NF
SMP253MA4150MTR24	1789679	-	CAPACITOR, Y2, 250V, 1.5NF
SMP253MA4220MTR24	1789680	-	CAPACITOR, Y2, 250V, 2.2NF
SMP253MA4250MTR24	1789681	-	CAPACITOR, Y2, 250V, 2.5NF
SMP253MA4330MTR24	1789682	-	CAPACITOR, Y2, 250V, 3.3NF
SMP253MA4390MTR24	1789683	-	CAPACITOR, Y2, 250V, 3.9NF
SMP253MA4470MTR24	1789684	-	CAPACITOR, Y2, 250V, 4.7NF

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