

Type 420C (Low-Profile) Molded-Case SIP Resistor Networks

Features —

- 6, 8 and 10-Pin SIPs Standard
- Multiple Isolated Resistors
- Pull-Up/Pull-Down and Interface Networks
- Thevenin Terminators
- Custom Design Capability

Electrical Specifications —

Resistance Range: 10 Ohms to 1 Megohm.
(See Standard Resistance Code Table.)

Resistance Tolerance:
± 2% or ± 1 Ohm, whichever is greater.

Temperature Coefficient:
± 200 ppm/°C.

TCR Tracking:
± 50 ppm/°C (like values).
± 100 ppm/°C (mixed values).

Operating Temperature: - 55°C to + 125°C.

Operating Voltage: 50 V Max.

Circuit: PD

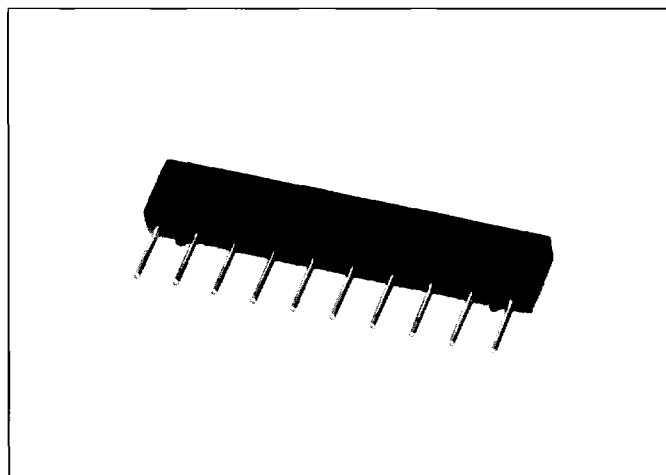
Power per Resistor: 125 mW Max. at +70°C
Pins: 6 — Package Power: 0.6 W Max.
Pins: 8 — Package Power: 0.8 W Max.
Pins:10 — Package Power: 1.0 W Max.

Circuit: SR

Power per Resistor: 200 mW Max. at +70°C
Pins: 6 — Package Power: 0.6 W Max.
Pins: 8 — Package Power: 0.8 W Max.
Pins:10 — Package Power: 1.0 W Max.

Circuit: TR

Power per Resistor: 125 mW Max. at +70°C
Pins: 8 — Package Power: 0.8 W Max.
Pins:10 — Package Power: 1.0 W Max.



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Environmental Characteristics —

(Reference MIL-R-83401. See Test Procedures, page 38.)

Thermal Shock: Max. $\Delta R = \pm 0.25\%$.

Short-Time Overload: Max. $\Delta R = \pm 0.25\%$.

Load-Life: Max. $\Delta R = \pm 1.0\%$.

Mechanical Shock: Max. $\Delta R = \pm 0.25\%$.

Resistance to Soldering Heat:
Max. $\Delta R = \pm 0.25\%$.

Terminal Strength: Max. $\Delta R = \pm 0.25\%$.

Moisture Resistance: Max. $\Delta R = \pm 0.5\%$.

Vibration: Max. $\Delta R = \pm 0.25\%$.

Case Insulation Resistance:
IR = 10,000 Megohms Min.

Dielectric Withstanding Voltage: 200 V rms.
Max. Leakage = 1 mA.

Solderability: Min. 95% solder coverage.

Resistance to Solvents:
Marking remains legible.

Physical Characteristics —

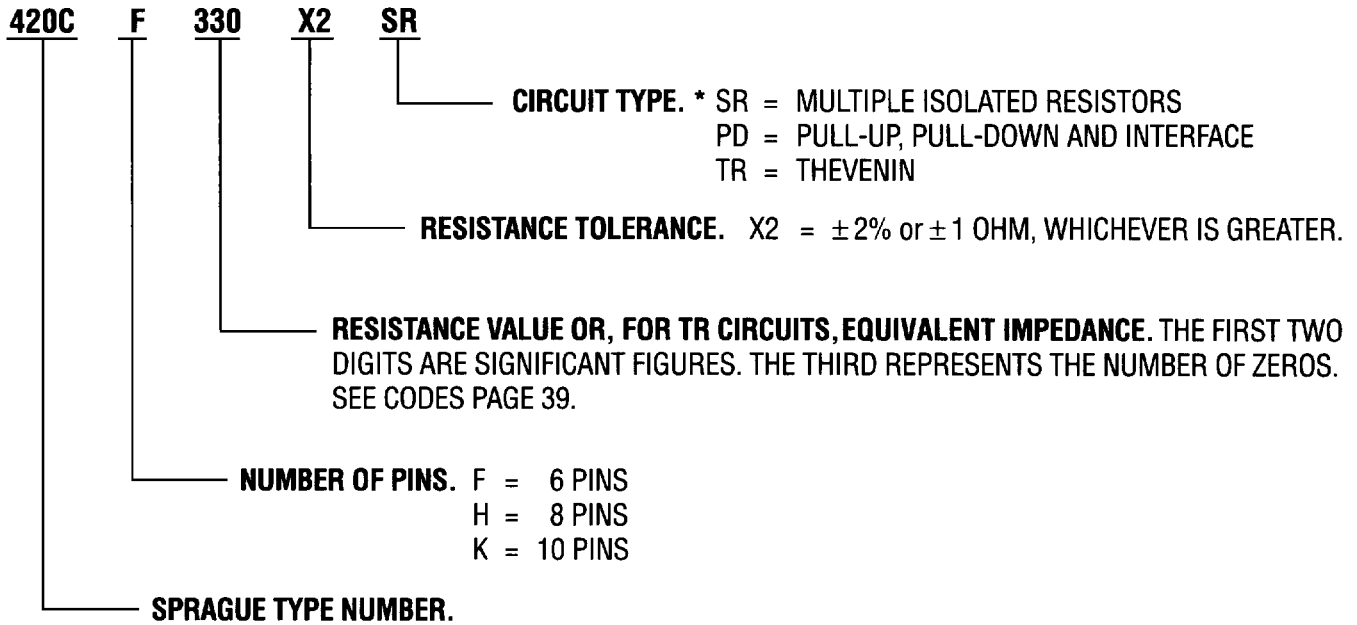
Flammability: UL 94V-0.

Lead Material: Copper, Solder-Coated.

Body Material: Molded Epoxy.

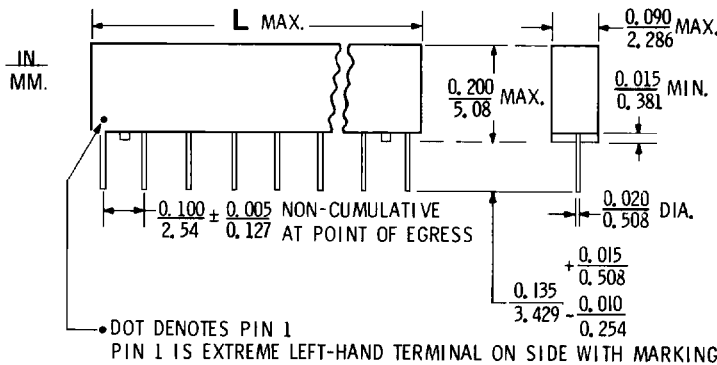
Marking: Pin #1 Identification, Part Number,
Sprague Trademark ©, Date Code.

Catalog Numbering System



*See Circuit Summary, Page 36-37.

DIMENSIONS



Number of Pins	L MAX. in.
F (6-Pin)	0.590
H (8-Pin)	0.790
K (10-Pin)	0.990

Dwg. No. A-13,071

Popular Thevenin Terminator Networks (Circuit TR)

R ₁	R ₂	Impedance	Catalog Numbers	
			8-Pin	10-Pin
81	130	50	420CH500X2TR	420CK500X2TR
121	195	75	420CH750X2TR	420CK750X2TR
162	260	100	420CH101X2TR	420CK101X2TR
180	390	120	420CH121X2TRA	420CK121X2TRA
220	270	120	420CH121X2TRB	420CK121X2TRB
220	330	130	420CH131X2TR	420CK131X2TR
330	390	180	420CH181X2TR	420CK181X2TR
330	470	190	420CH191X2TR	420CK191X2TR
330	680	220	420CH221X2TRA	420CK221X2TRA
390	500	220	420CH221X2TR	420CK221X2TR