

Type 216C (High-Profile) Conformal-Coated 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: 200 mW Max. at +70°C

Pins: 6 — Package Power: 1.1 W Max.

Pins: 8 — Package Power: 1.8 W Max.

Pins:10 — Package Power: 2.0 W Max.

Circuit: SR

Power per Resistor: 300 mW Max. at +70°C

Pins: 6 — Package Power: 1.1 W Max.

Pins: 8 — Package Power: 1.8 W Max.

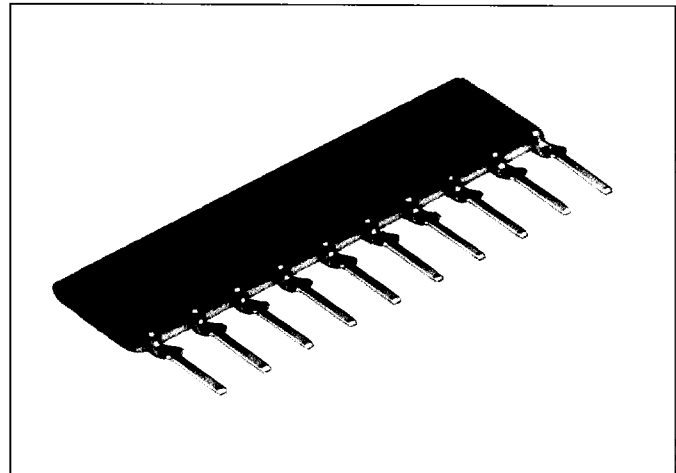
Pins:10 — Package Power: 2.0 W Max.

Circuit: TR

Power per Resistor: 200 mW Max. at +70°C

Pins: 8 — Package Power: 1.8 W Max.

Pins:10 — Package Power: 2.0 W Max.



9853

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.

Solderability: Min. 95% solder coverage.

Resistance to Solvents:
Marking remains legible.

Physical Characteristics —

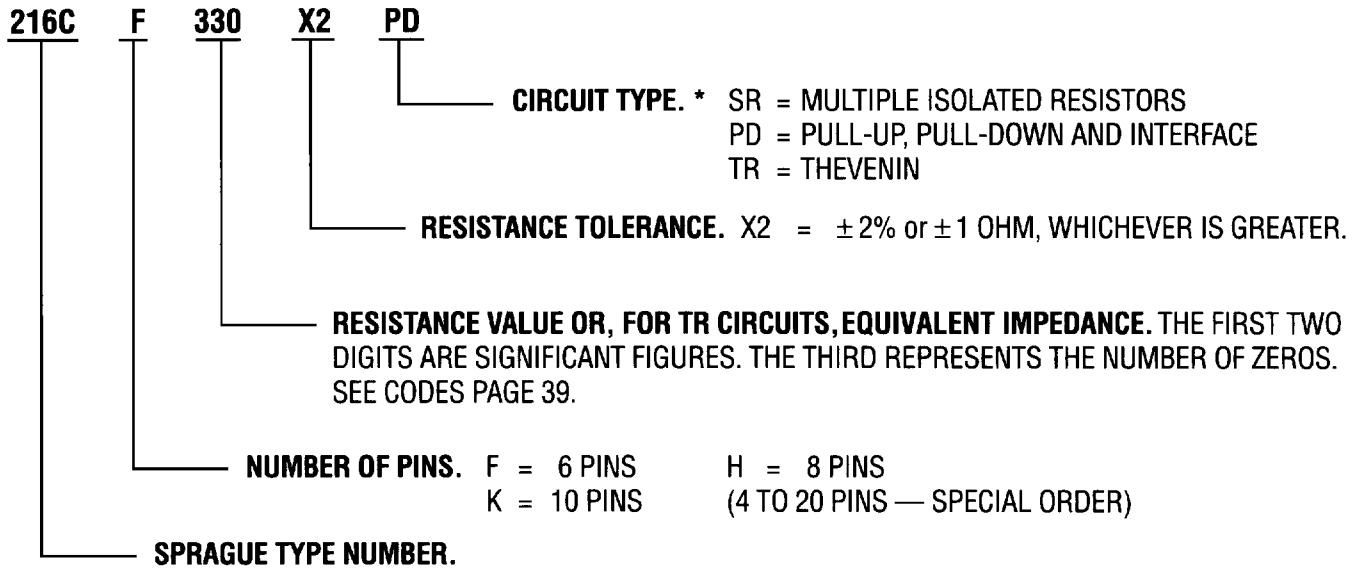
Flammability: UL 94V-0.

Lead Material: Phosphorous-Bronze,
Solder-Coated.

Body Material: Resin-Coated.

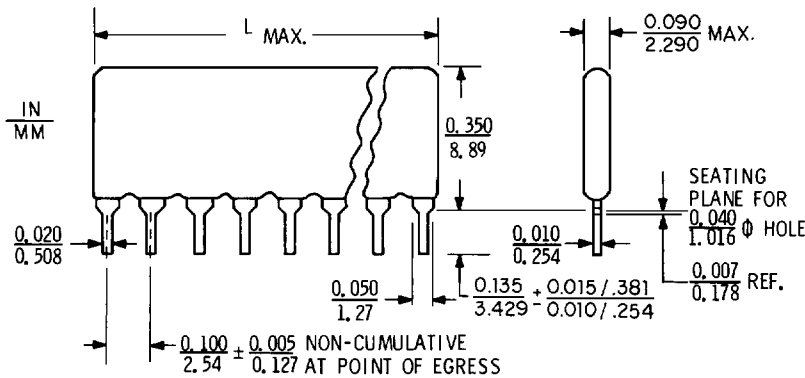
Marking: Pin #1 Identification, Part Number,
Sprague Trademark ®, Date Code.

Catalog Numbering System



*See Circuit Summary, Page 36-37.

DIMENSIONS



PIN 1 IS EXTREME LEFT-HAND TERMINAL ON SIDE WITH MARKING

DWG.NO. A-13,069A

Number of Pins	L MAX. in.
D (4-Pin)	0.400
E (5-Pin)	0.500
F (6-Pin)	0.600
G (7-Pin)	0.700
H (8-Pin)	0.800
J (9-Pin)	0.900
K (10-Pin)	1.000
L (11-Pin)	1.100
M (12-Pin)	1.200
N (13-Pin)	1.300
P (14-Pin)	1.400
Q (15-Pin)	1.500
R (16-Pin)	1.600
S (17-Pin)	1.700
T (18-Pin)	1.800

Popular Thevenin Terminator Networks (Circuit TR)

R ₁	R ₂	Impedance	Catalog Numbers	
			8-Pin	10-Pin
81	130	50	216CH500X2TR	216CK500X2TR
121	195	75	216CH750X2TR	216CK750X2TR
162	260	100	216CH101X2TR	216CK101X2TR
180	390	120	216CH121X2TRA	216CK121X2TRA
220	270	120	216CH121X2TRB	216CK121X2TRB
220	330	130	216CH131X2TR	216CK131X2TR
330	390	180	216CH181X2TR	216CK181X2TR
330	470	190	216CH191X2TR	216CK191X2TR
330	680	220	216CH221X2TRA	216CK221X2TRA
390	500	220	216CH221X2TR	216CK221X2TR