



**Certificate:** A certificate is supplied certifying that each component capacitor was adjusted by comparison to a precision better than  $\pm .01\%$  with working standards maintained to an accuracy of  $\pm .02\%$  in terms of NBS-certified reference standards.

**Dissipation Factor**

<i>D not greater than</i>	<i>C range</i>
.001	100 pf to 1000 pf
.0005	1100 pf to 2000 pf
.0003	2100 pf to 1.1110 $\mu$ f

**Temperature Coefficient of Capacitance:** Approximately +35 ppm per degree Centigrade between 10 and 50 degrees C.

**Insulation Resistance:** Greater than 50,000 M $\Omega$

to 0.1  $\mu$ f and greater than 5,000 M $\Omega$  from 0.1  $\mu$ f to 1.111  $\mu$ f.

**Calibration Frequency:** 1 kc.

**Frequency Characteristic:** The behavior of each individual capacitor is similar to that of a TYPE 1409 Capacitor.

**Maximum Voltage:** 500 volts peak, up to 10 kc.

**Accessories Supplied:** Two TYPE 874-Q9 Adapters.

**Mounting:** Aluminum relay-rack-style cabinet in gray, supplied with metal end frames for bench mounting.

**Dimensions:** Width 19, height 7, depth  $9\frac{3}{4}$  inches (485 by 180 by 250 mm), over-all.

**Net Weight:** 26 pounds (11.8 kg).

<i>Type</i>	<i>Code Word</i>	<i>Price</i>
1423-A	Precision Decade Capacitor.....	LEVEL \$695.00

## A FOUR-DIAL POLYSTYRENE DECADE CAPACITOR

In addition to the two decade capacitance standards already described in this issue, a new four-dial polystyrene decade capacitor, TYPE 1419-B, has been added to our listing and is now available from stock. The new decade is similar to the popular TYPE 1419-A, a three-dial decade announced about five years ago, except for the addition of a 100-pf-per-step decade, TYPE 980-D.

### SPECIFICATIONS

**Capacitance:** 1.1110  $\mu$ f maximum, in steps of .0001  $\mu$ f.

**Dielectric:** Polystyrene (TYPE 980-A, -B, -C, and -D Decade Capacitor Units).

**Zero Capacitance:** 50 pf, two-terminal; 20 pf, three-terminal.

**Accuracy:** Capacitance increments from zero position are within the following percentages of the indicated value for any setting: (2-terminal)  $\pm 1\%$  on three highest decades and  $\pm (1\% + 2 \text{ pf})$  on the smallest decade; (3-terminal)  $\pm 1\%$  on two highest decades,  $\pm 1.5\%$

on the .001- $\mu$ f-per-step decade, and  $+1\%$ ,  $-(2\% + 4 \text{ pf})$  on the smallest decade.

**Dissipation Factor:** Less than .0002 at 1 kc.

**Insulation Resistance:**  $10^{12}$  ohms at 100 v, 23 C, 50% RH.

**Temperature Coefficient of Capacitance:** -140 ppm per degree Centigrade, nominal.

**Maximum Operating Temperature:** 65 C.

**Maximum Operating Voltage:** 500 volts, dc or peak, up to 10 kc.

**Frequency Characteristic:** Similar to those for the TYPE 980 Decade Capacitor Units (see catalog), modified by the additional inductance and resistance of the box terminals and wiring.

**Ratio of DC Capacitance to 1-kc Capacitance:** Less than 1.001.

**Voltage Recovery:** Less than 0.1%, final, of original charging voltage after a charging period of one hour and a 10-second discharge through a resistance equal to one ohm per volt of charging.

**Terminals:** Three TYPE 938 Binding Posts with grounding link.

**Mounting:** Aluminum panel and cabinet.

**Dimensions:** Width  $4\frac{1}{4}$ , length  $16\frac{1}{4}$ , height 5 inches (110 by 415 by 130 mm), over-all.

**Net Weight:**  $8\frac{3}{8}$  pounds (3.8 kg).

<i>Type</i>	<i>Code Word</i>	<i>Price</i>
1419-B	Decade Capacitor.....	BEFIT \$262.00

# General Radio Company