



3721 & 3723

Dissipation factor $\tan \delta$ standards



DESIGN

The type 3721 resistance unit contains the resistors for all four $\tan \delta$ values accommodated in a sheet-metal casing. Four sockets for No. 101 cable are provided on one side of the casing and two plugs on the other. The resistance unit plugs directly into the top of the type 3320/1000 standard capacitor.

The Type 3723 resistance unit resistors for each $\tan \delta$ value are accommodated in a separate casing. Each casing plugs directly into the top of the type 3370 NK/1000/30 standard capacitor.

GENERAL

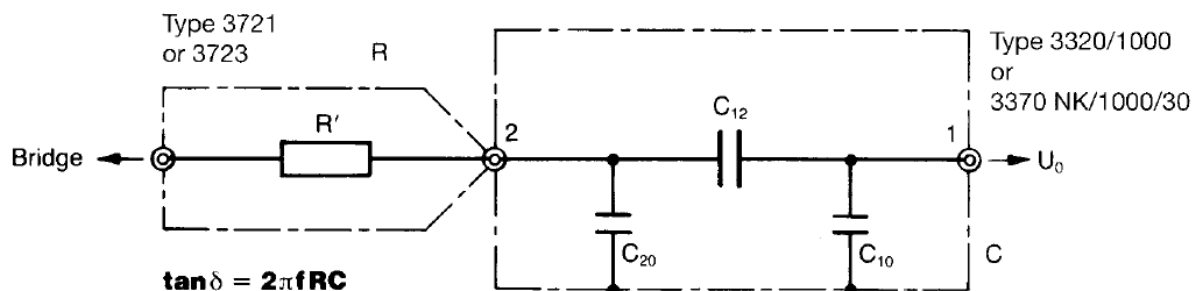
Dissipation factor $\tan \delta$ standards are designed for checking the accuracy of capacitance and dissipation factor measuring instruments.

A $\tan \delta$ standard is basically a standard capacitor in series with a resistor. To avoid excessive resistance values, a 1000 pF capacitor with a negligible dissipation factor should be used.

The resistance units have to be calibrated together with the standard capacitor (not included in the scope of supply).



Type 3721 installed on a 3320 standard capacitor





Type 3730 NK/30 standard capacitor
used for connection of a 3723 resistance units

TECHNICAL SPECIFICATION

Dissipation factor $\tan \delta$ values:

5×10^{-5} , 1×10^{-4} , 5×10^{-4} , 1×10^{-3}

Operating voltage / capacitance

3320/1000 with 3721: max. 2 kV/1000 pF

3370 NK/1000 with 3723: max. 30 kV/1000 pF

Accuracy

This depends on the following:

- Dissipation factor of standard capacitor $\tan \delta 1 \times 10^{-5}$
- Accuracy and constant value of resistors. Accuracy class 0,1.

Overall accuracy of dissipation factor $\tan \delta$:

± 1 % of indicated value $\pm 1 \times 10^{-5}$

Technical data for Tettex standard capacitors are specified in leaflets 3320 and 3370 NK.

Dimensions

Type 3721: 150 x 60 x 115 mm (W x H x L) (5.9 x 2.4 x 4.5 in)

Type 3723: 38 x 32 x 130 mm (W x H x L) (1.5 x 1.3 x 5.1 in)
each unit

Weight

Type 3721: 0.85 kg (1.87 lb)

Type 3723: 0.65 kg (1.43 lb) (complete set of four)

Order specification

Dissipation factor $\tan \delta$ standard up to 2 kV, including:

- 1 Standard air capacitor type 3320/1000 and
1 Resistance unit type 3721

Dissipation loss $\tan \delta$ standard for up to 30 kV, comprising:

- 1 Compressed gas capacitor type 3370 NK/1000/30 and
1 Set of four resistance units type 3723 Dissipation
factor standards for 60 Hz or with other $\tan \delta$ values are
available on request.

RELATED TETTEX PRODUCTS

Standard air capacitors
3320



Compressed gas
capacitors
3370NK /1000/30



Capacitance and $\tan \delta$
bridges 2840 and 2820a
and accessories



www.tettex.com

Europe, Asia, South & Central America, Australia

Haefely Test AG
Birsstrasse 300
4052 Basel
Switzerland
☎ + 41 61 373 4111
☎ + 41 61 373 4912
✉ sales@tettex.com

China (Sales & Service Office)

Haefely Test AG – Beijing Office
8-1-602, Fortune Street
No. 67, Chaoyang Road, Chaoyang District
Beijing, 100025
P. R. China
☎ + 86 10 8578 8099
☎ + 86 10 8578 9908
✉ sales@haefely.com.cn

North America

Hipotronics Inc.
1650 Route 22
PO Box 414
Brewster, NY 10509
USA
☎ + 1 845 279 3644
☎ + 1 845 279 2467
✉ sales@hipotronics.com

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