

CA6221D-30-10

Dissipation Factor
and Capacitance Standard



Dissipation Factor and Capacitance Standard CA6221D-30-10 is designed for High Voltage Capacitance Bridge and insulation testers calibration. It can be applied for traceability of electric capacitance and $\tan \delta$ values

FEATURES AND BENEFITS

- High accuracy
- Operating voltage up to 12 kV, 50 Hz
- Nominal $\tan \delta$: 0; $1 \cdot 10^{-4}$; $1 \cdot 10^{-3}$; $1 \cdot 10^{-2}$; $1 \cdot 10^{-1}$
- Nominal capacitance: 2...30 pF
- High stability in the range of operating temperatures
- Built-in platinum resistive temperature sensor PT100 to provide temperature correction of Standards capacitance

APPLICATIONS

- Calibration laboratories
- Metrology institutes

TECHNICAL SPECIFICATIONS

Specification	Value
Nominal Capacitance	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 pF
Capacitance accuracy	$\pm 0,05 \%$
Nominal $\tan \delta^*$	0; $1 \cdot 10^{-4}$; $1 \cdot 10^{-3}$; $1 \cdot 10^{-2}$; $1 \cdot 10^{-1}$
$\tan \delta$ accuracy	$\pm (3 \cdot 10^{-5} + 0,002 \cdot \tan \delta)$
Limits of allowable relative change of capacitance depending on the applied voltage in the range 1...12 kV	$\pm 0,05 \%$
Limits of allowable absolute change of $\tan \delta$ depending on the applied voltage in the range 1...12 kV	$\pm 3 \cdot 10^{-5}$
Voltage	12 kV
Frequency	50 Hz

*Nominal values, exact values will be within 10 % difference and delivered in the passport.

Operating temperature	15...30 °C
Relative humidity	up to 80 % non-condensing
Size (W × H × D)	175 × 85 × 250 mm
Weight, less than	3 kg

ORDERING INFORMATION

Scope of supply

The following items are supplied with the standard CA6221-30-10 modification:

No	Item	Part no.	
1	Dissipation Factor and Capacitance Standard CA6221D-30-10	411439.018	
2	Extension	723111.001	
3	Operating manual	411634.037 OM	
4	Bag	323382.041	

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Development and production
of measurement devices

POSTAL ADDRESS

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