

3320

Standard Air Capacitors

Datasheet



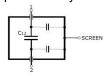




General Description

3320 standard air capacitors are especially built for high accuracy dissipation factor (tan δ) measurements or for calibrating measuring bridges together with the 3721.

Because of their high insulation resistance, small selfinductance and dissipation factor, these standard capacitors may be used within large frequency ranges



$$C = C_{12} + \frac{C_{10} * C_{20}}{C_{10} + C_{20}}$$

For a stable dissipation factor ($\tan \delta$), the outer case is equipped with a moisture indicator. If value is too high, the included silica gel cartridge can be easily dried in an oven and reused.

Features	Advantages
 Highly stable capacitance with no influence from atmospheric pressure and humidity 	 Can be used in HV laboratories even at non reference climate conditions
 Very low internal dissipation factor 	☑ Suitable for calibrations or reference laboratories
Coaxial Lemo 3 connectors	☑ Can be directly connected to Tettex measuring bridges manufactured since 1985.
 Enclosed in housing filled with dry air to protect against dust and moisture 	☑ Protected against dust and moisture.
 Equipped with a drying agent (Silica gel) and humidity indicator on the top 	☑ It will advise when the draying agent (re-usable) must be dried.

Applications

- Calibration laboratories
- Reference laboratories

Accessories

3721 tan δ Standards



Technical Data

Measurement						
	Nominal Value		Tolerance	Measured accuracy		
None in al Maltana	0.137					
Nominal Voltage	2 kV					
Main Capacitance C ₁₂ (pF)	10	3320/10	<u>+</u> 0.2 % <u>+</u> 0.5 pF	<u>+</u> 0.02 % <u>+</u> 0.01 pF		
	100	3320/100				
	1000	3320/1000				
	10000	3320/10'000				
Partial Capacitance C ₁₀ &	65	3320/10	<u>+</u> 5 pF	± 0.1% RD ± 1 x 10 ⁻⁵		
C ₂₀ (pF)	70	3320/100	<u>+</u> 10 pF			
	80	3320/1000	<u>+</u> 10pF			
	210	3320/10'000	<u>+</u> 40 pF			
Dissipation Factor (tan δ)	< 1 x 10-5 ± 1 x 10-5					

Environmental		
Operating temperature	0 °C +40 °C	
Storage temperature	-20 °C +70 °C	
Humidity ⁽¹⁾	5 90 % r.h. , non-condensing	

⁽¹⁾ The capacitor is equipped with a draying agent (Silica gel) to keep the inner housing dry. Above specifications are valid for inner case humidity below 50 % non-condensing.

Mechanical			
Dimensions (W x D x H)	360 x 360 x 450 mm (14.2 x 14.2 x 17.7 in)		
Weight	10 kg (22 lb) 10 kg (22 lb) 13 kg (28.7 lb) 35 kg (77.2 lb)	3320/10 3320/100 3320/1000 3320/10'000	

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