

# Dielectric Sample Holder

## DSH 100



The **Dielectric Sample Holder DSH 100** is designed to analyze solid dielectric materials.

Together with the Dielectric Material Analyzer SPECTANO 100, the DSH 100 is suitable to determine all important dielectric parameters of materials like nano composites, polymers, epoxy, insulation papers, glasses, thin films...

Every other dielectric material analyzer, LCR meter or impedance analyzer, like the Bode 100, can also be used together with the DSH 100.

### Key Features

- Easy-to-use and compact
- Exchangeable, cost-effective electrodes
- Shielding for precise measurements
- Safe operation due to safety interlock mechanism
- Spacers for air reference measurement
- Tensioner to control pressure
- Possibility to mount heating pads, pressure sensor and temperature sensor



## Electrical parameters

Maximum Operation Voltage (AC/DC)	$\leq 200 V_{\text{peak}}$
Maximum current (AC/DC)	$\leq 50 \text{ mA}_{\text{peak}}$
Usable frequency range	5 $\mu\text{Hz}$ to 5 MHz

## Mechanical parameters

Top electrode	$\varnothing 70 \text{ mm}$
Bottom electrode with guard ring	$\varnothing 49 \text{ mm}$
Guard ring width / gap	9.5 mm / 1 mm
Sample thickness	0.1 mm to 20 mm
Sample size	50 mm x 50 mm to 70 mm x 70 mm
Spacer for air-reference measurement thickness	0.8 mm / 1 mm / 1.55 mm
Spring force (clamping system)	10 N and 50 N

## Environmental conditions

Operating temperature	-55 °C to +125 °C
Operating relative humidity	$\leq 95 \%$ non-condensing
Maximum altitude	2000 m

## General

Dimensions (w x h x d)	165 mm x 108 mm x 118 mm
Weight	2.5 kg
Supports measurements in accordance with	ASTM D150 IEC 62631-2-1 (2018) IEC 62631-3-1 (2016)
Triaxial connectors	LEMO female plug PSA.1S.650.CLL

**Order number:** OL000453

---

Product specifications and descriptions in this document are subject to change without notice.

© OMICRON Lab  
V1 - 1905