

DPS-445

PRODUCT INFORMATION

Dipole test probes

Grid:
 ≥ 5.5 mm
 ≥ 220 Mil
Installation height with KS: 8.5 mm
Recommended stroke: 3.0 mm

INGUN Prüfmittelbau GmbH
 Max-Stromeyer-Straße 162
 78467 Constance | Germany
 Tel. +49 7531 8105-0
 www.ingun.com

DETERMINE RESISTANCE DIRECTLY ON THE CONTACT SURFACE (KELVIN MEASUREMENT)

Application / Features

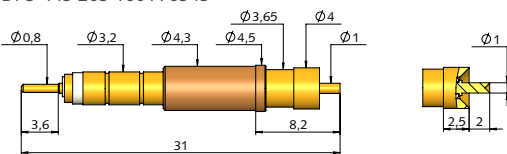
- The dipole test probes developed by INGUN are highly suitable for performing 4-wire measurements thanks to their coaxial design. This allows the voltage and current to be measured directly on the contact surface and the resistance to be determined.
- Furthermore, it is also possible to perform connection tests on coaxial plug connectors, such as FAKRA plug connectors.
- An addition to the connection test, a straightness test of the plug pins is carried out using the insulating sleeve on the 003 tip style. If the connector pin is bent, it does not enter the insulating sleeve and no contact is made. The FAKRA connector is thus detected as being defective.

Function / Assembly

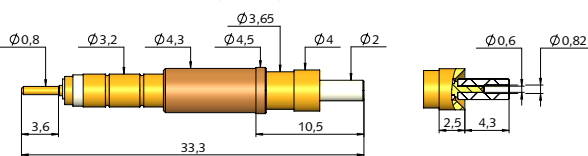
- The DPS-445 probes are mounted in the KS-445 receptacle.
- The outer conductor's electrical connection is achieved by soldering it to the receptacle. The inner conductor is wired via the connection pin.
- The inner conductor is connected to the connection pin, either using the SE-445 connector or by direct soldering.

Mounting and functional dimensions

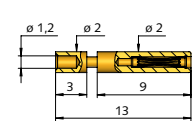
DPS-445 203 100 A 6543



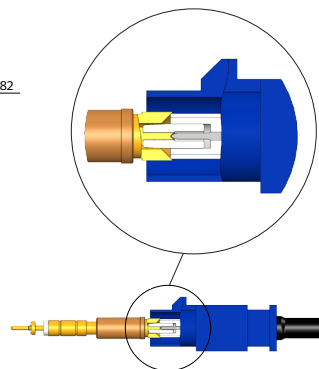
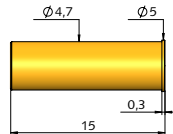
DPS-445 003 060 A 6543 (FAKRA)



SE-445



KS-445



DPS-445 003 060 A 6543 connecting a FAKRA plug connector

Available tip styles

| Material | Inner conductor | Plating | Available versions | |
|----------|-----------------|---------|--------------------|--|
| | | | Ø | |
| 0 03 | | A | Ø 0.60 | |
| 2 03 | | A | Ø 1.00 | |
| 2 71 | | A | Ø 1.00 | |

| Material | Outer conductor | Plating | Available versions | |
|----------|-----------------|---------|--------------------|--|
| | | | Ø | |
| 3 43 | | A | Ø 4.00 | |

Mechanical data

Working stroke: Outer cond. 2.0 mm
 Inner cond. 3.0 mm
Maximum stroke: Outer cond. 2.6 mm
 Inner cond. 3.5 mm
Spring force at work. stroke: Outer 4.5 N
 Inner 2.0 N

Materials

Plunger
- Outer conductor: CuBe, gold-plated
- Inner conductor: Steel, gold-plated
Barrel: Bronze
Spring: Steel
Receptacle: Brass, gold-plated

Mounting hole size

For KS-445:
in CEM and FR4: Ø 4.68-4.69 mm

Electrical data

Current rating: Outer 6.0 A, inner 1.6 A
Ri typical: Outer cond. 60 mΩ
 Inner cond. 30 mΩ

Operating temperature

Standard: -100°C up to +200°C

Ordering example

| | Series | Tip material 2 = Steel 3 = BeCu | Tip style | Tip diameter (1/100 mm) | Plating A = Gold | Spring force (dN) | Outer plunger |
|---------------|-------------|---------------------------------------|-----------|----------------------------|---------------------|----------------------|---------------|
| Dipole probe: | D P S | 4 4 5 | 2 0 3 | 1 0 0 | A | 6 5 | 4 3 |
| Receptacles: | K S - 4 4 5 | | | | | | |
| Plug: | S E - 4 4 5 | | | | | | |