

# HFS 010

Coaxial Dipole Probe/RF-Test Probe, 50 Ω, 200 MHz

## Grid:

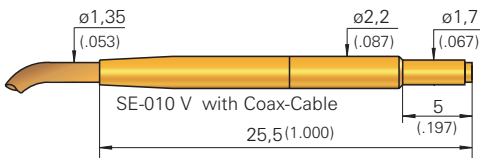
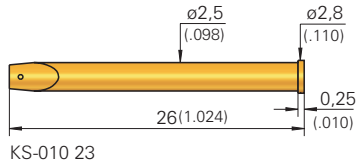
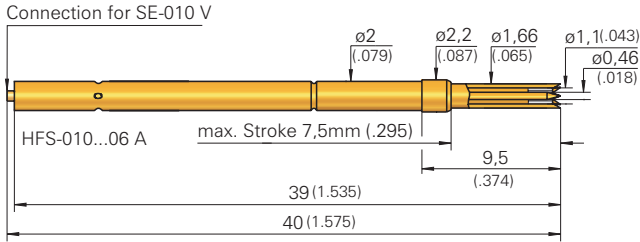
≥ 2,54 mm

≥ 100 Mil

Installation Height: 9,5 mm (.374)

Recommended Stroke: 5,5 mm (.217)

## Mounting and Functional Dimensions



## Available Tip Styles

### Inner Conductor

| Material | Tip Style     | Plating | Further Versions |          |
|----------|---------------|---------|------------------|----------|
|          |               |         | ∅                | ∅ (inch) |
| 3 51     | ∅ 0,50 (.020) | A       |                  |          |
| 3 54     | ∅ 0,50 (.020) | A       |                  |          |

## Available Tip Styles

### Outer Plunger

|    |  |
|----|--|
| 02 |  |
| 06 |  |

### Mechanical Data

|                                       |               |
|---------------------------------------|---------------|
| <b>Working Stroke:</b>                | 5,5 mm (.217) |
| <b>Maximum Stroke:</b>                | 7,5 mm (.295) |
| <b>Spring Force at Working Stroke</b> |               |
| - Outer Conductor:                    | 1,2 N (4.3oz) |
| - Inner Conductor:                    | 0,8 N (2.9oz) |

### Materials

|                    |                    |
|--------------------|--------------------|
| <b>Plunger:</b>    | BeCu, gold-plated  |
| <b>Barrel:</b>     | Brass, gold-plated |
| <b>Spring:</b>     | Steel, gold-plated |
| <b>Receptacle:</b> | Brass, gold-plated |
| <b>Insulation:</b> | Delrin             |

### Note:

The Receptacle KS-010 23 can be used from Grid 3,00 mm (120 Mil) up.

### Electrical Data

|                               |               |
|-------------------------------|---------------|
| <b>Frequency Range:</b>       | up to 200 MHz |
| <b>Current Rating:</b>        | 3 A           |
| <b>R<sub>i</sub> typical:</b> | < 20 mΩ       |
| <b>Impedance Test Probe:</b>  | 25 - 30 Ω     |
|                               | 200 MHz       |
| <b>Impedance Cable:</b>       | 50 Ω/200 MHz  |
|                               | 90 pf/m       |

### Mounting Hole Size

|                            |                                  |
|----------------------------|----------------------------------|
| <b>with Receptacle:</b>    | ∅ 2,48 - 2,49 mm (.0976 - .0980) |
| <b>without Receptacle:</b> | ∅ 2,00 mm (.0787)                |

### Operating Temperature

|                  |                  |
|------------------|------------------|
| <b>Standard:</b> | -40 up to +80 °C |
|------------------|------------------|

### Note:

The Inner Conductor has a fixed connection with the Probe and therefore cannot be changed.

The spring-loaded Outer Plunger of the HFS-010 is also available with a shorter assembly-length on request.

## Ordering Example

| Series | Tip Material | Tip Style | Tip Diameter (1/100 mm) | Plating  | Spring Force (dN) | Outer Plunger (alternative 06) | Type |
|--------|--------------|-----------|-------------------------|----------|-------------------|--------------------------------|------|
|        | 3 = BeCu     |           |                         | A = Gold |                   |                                |      |

Test Probe:

H F S 0 1 0 3 5 1 0 5 0 A 2 0 0 2 A

Plug with RF-Coaxial Cable pre-wired,  
Length 0,75 m (Special Length on request):

S E - 0 1 0 V

Receptacle:

K S - 0 1 0 2 3