

# High-Frequency Probe

## HFS-810 201 051 A 5306

Item HFS-810-0014

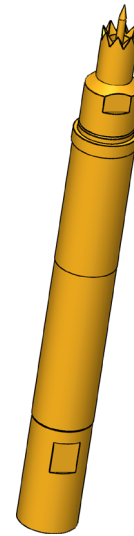
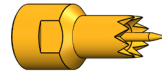


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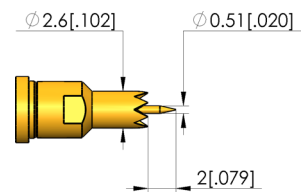
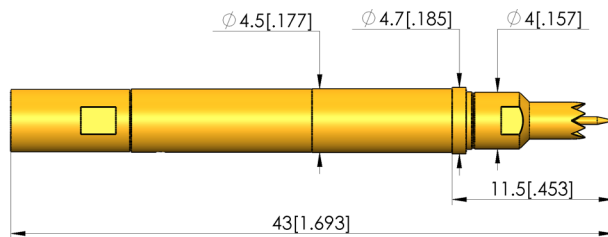
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Partner for Future Technology

- Long standard series
- Up to 2 GHz
- Cable interface MCX
- Plug-in version
- Receptacles: KS-810, KS-810 R, KS-810 F



1:1



### General data

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Product group:                        | HFS radio-frequency test probes |
| Series:                               | HFS-810                         |
| Sub-series:                           | HFS-810                         |
| Grid:                                 | 5.8 mm [228 mil]                |
| DUT / contact:                        | PCB coax, closed                |
| Installation type:                    | Plug-in                         |
| Floating mount:                       | No                              |
| Non-rotating:                         | Yes                             |
| Continuous plunger:                   | Yes                             |
| Interface of compatible assembly:     | MCX 50 Ohm                      |
| Compatible assembly interface gender: | M signal conductor male / pin   |
| KS sub-series:                        | KS-810, press-in version        |
| Min. temperature:                     | -40 °C [-40 °F]                 |
| Max. temperature:                     | 80 °C [176 °F]                  |
| RoHS-compliant:                       | Yes                             |

### Outer conductor data

|                                                           |                  |
|-----------------------------------------------------------|------------------|
| Outer conductor tip style:                                | 06 serrated      |
| Outer conductor tip style diameter:                       | 2.6 mm [.102 in] |
| Spring force of entire outer conductor at working stroke: | 4 N [14.3 ozf]   |
| Outer conductor working stroke:                           | 4 mm [.157 in]   |
| Outer conductor maximum stroke:                           | 5 mm [.196 in]   |
| Exchangeable outer conductor:                             | KO-810-0156      |
| Outer conductor max. current load capacity:               | 10 A             |

### Inner conductor data

|                                                         |                                  |
|---------------------------------------------------------|----------------------------------|
| Inner conductor tip style:                              | 01 30° needle tip, self-cleaning |
| Inner conductor tip style diameter:                     | 0.51 mm [.02 in]                 |
| Inner conductor tip style material:                     | 2 steel                          |
| Inner conductor tip style surface:                      | A gold                           |
| Number of inner conductors:                             | 1                                |
| Exchangeable inner conductor:                           | GKS-051-0001                     |
| Inner conductor working stroke:                         | 2 mm [.078 in]                   |
| Spring force of each inner conductor at working stroke: | 1.3 N [4.67 ozf]                 |
| Inner conductor maximum stroke:                         | 3.7 mm [.145 in]                 |
| Inner conductor max. current load capacity:             | 2 A                              |

### Electrical data

|                        |        |
|------------------------|--------|
| Frequency range up to: | 2 GHz  |
| Impedance:             | 50 Ohm |

### Mechanical data

|                                         |                   |
|-----------------------------------------|-------------------|
| Total spring force at working stroke:   | 5.3 N [19 ozf]    |
| Total length:                           | 43 mm [1.69 in]   |
| Barrel diameter:                        | 4.5 mm [.177 in]  |
| Installation height without receptacle: | 11.5 mm [.452 in] |

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