

# Radio-frequency probe

## HFS-810 308 180 A 5342 E M

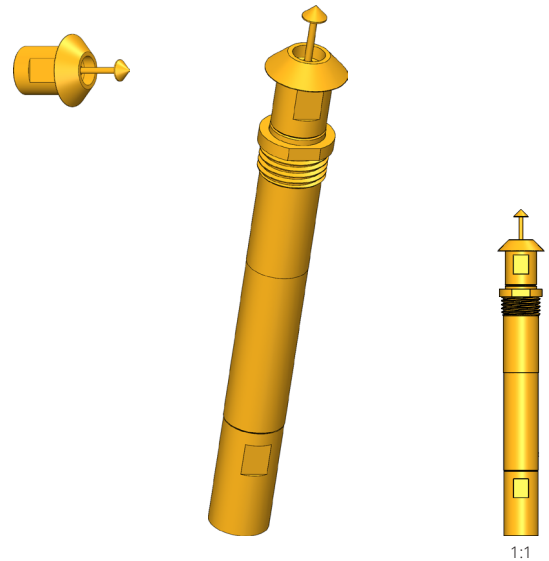
Item HFS-810-0388



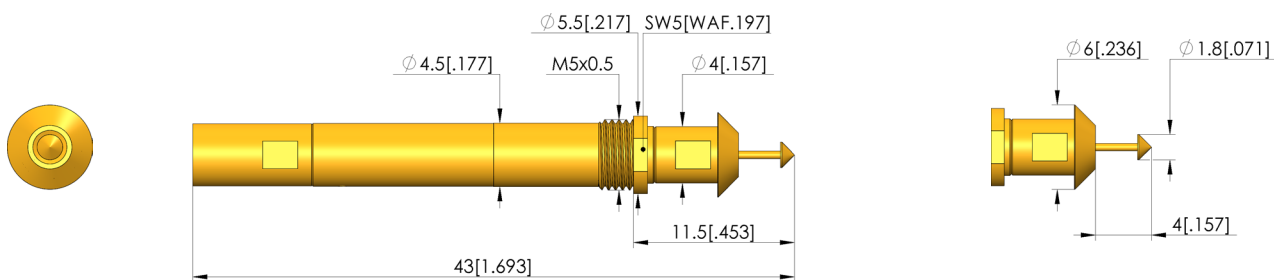
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- Long standard series
- Up to 2 GHz
- Cable interface MCX
- Screw-in version
- Receptacles: KS-810 M5-R, KS-810 M5-F



1:1



### General data

|                                        |                                    |
|----------------------------------------|------------------------------------|
| Product group:                         | HFS radio-frequency test probes    |
| Series:                                | HFS-810                            |
| Sub-series:                            | HFS-810 M screw-in                 |
| Grid:                                  | 6.5 mm [255 mil]                   |
| DUT / contact:                         | SMA                                |
| Installation type:                     | Screw-in                           |
| DUT interface gender :                 | F signal conductor female / socket |
| 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 M, screw-in version         |
| Min. temperature:                      | - 40 °C [- 104 °F]                 |
| Max. temperature:                      | + 80 °C [+ 176 °F]                 |
| RoHS-compliant:                        | RoHS-3;6c                          |

### Outer conductor data

|                                                           |                                              |
|-----------------------------------------------------------|----------------------------------------------|
| Outer conductor tip style:                                | 42 centring for inner side of plug connector |
| Outer conductor tip style diameter:                       | 6 mm [.236 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-810342600A-E                              |
| Outer conductor max. current load capacity:               | 10 A                                         |

### Inner conductor data

|                                                         |                              |
|---------------------------------------------------------|------------------------------|
| Inner conductor tip style:                              | 08 90°conical, self-cleaning |
| Inner conductor tip style diameter:                     | 1.8 mm [.070 in]             |
| Inner conductor tip style material:                     | 3 CuBe                       |
| Inner conductor tip style surface:                      | A gold                       |
| Number of inner conductors:                             | 1                            |
| Exchangeable inner conductor:                           | GKS-051-0013                 |
| 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:             | 3 A                          |

RADIO-FREQUENCY TEST PROBES

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Item HFS-810-0388



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### Electrical data

Frequency range up to:  
Impedance:  
Dielectric strength:

2 GHz  
50 Ohm  
1.1 kV

### Mechanical data

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| Total spring force at working stroke:   | 5.3 N [19.0 ozf]                 |
| Total length:                           | 43 mm [1.69 in]                  |
| Barrel diameter:                        | 4.5 mm [.177 in]                 |
| Installation height without receptacle: | 11.5 mm [.452 in]                |
| Torque in receptacle:                   | 10 - 20 cNm [.885 - 1.77 lbf·in] |

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