

# Radio-frequency probe

## HFS-840 303 150 A 9943 E3 M

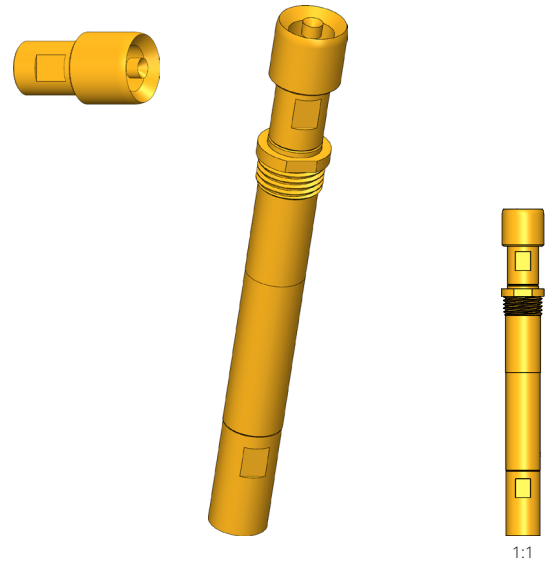
Item HFS-840-0685



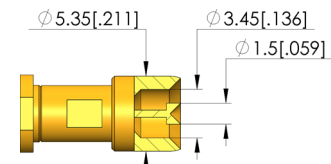
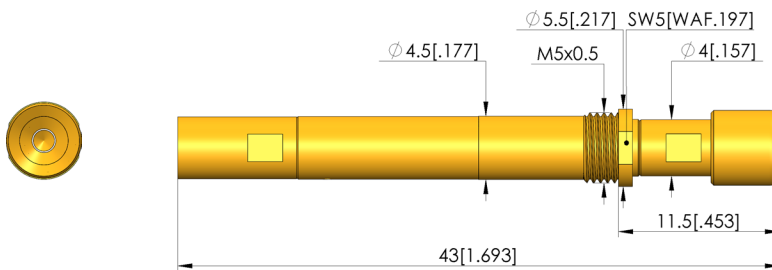
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- Long standard series
- Up to 4 GHz
- Cable interface MCX
- Screw-in version
- Receptacles: KS-810 M5-R, KS-810 M5-F



1:1



### General data

|                                        |                                 |
|----------------------------------------|---------------------------------|
| Product group:                         | HFS radio-frequency test probes |
| Series:                                | HFS-840                         |
| Sub-series:                            | HFS-840 M screw-in              |
| Grid:                                  | 5.9 mm [232 mil]                |
| DUT / contact:                         | SMA                             |
| Installation type:                     | Screw-in                        |
| DUT interface gender :                 | M signal conductor male / pin   |
| 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:                                | 43 centring for outer side of connector |
| Outer conductor tip style diameter:                       | 5.35 mm [.210 in]                       |
| Spring force of entire outer conductor at working stroke: | 8 N [28.7 ozf]                          |
| Outer conductor working stroke:                           | 4 mm [.157 in]                          |
| Outer conductor maximum stroke:                           | 5 mm [.196 in]                          |
| Exchangeable outer conductor:                             | KO-810143535A-E3                        |
| Outer conductor max. current load capacity:               | 10 A                                    |

### Inner conductor data

|                                                         |                  |
|---------------------------------------------------------|------------------|
| Inner conductor tip style:                              | 03 inverse cone  |
| Inner conductor tip style diameter:                     | 1.5 mm [.059 in] |
| Inner conductor tip style material:                     | 3 CuBe           |
| Inner conductor tip style surface:                      | A gold           |
| Number of inner conductors:                             | 1                |
| Exchangeable inner conductor:                           | GKS-051-0010     |
| Inner conductor working stroke:                         | 2 mm [.078 in]   |
| Spring force of each inner conductor at working stroke: | 2 N [7.19 ozf]   |
| Inner conductor maximum stroke:                         | 3.7 mm [.145 in] |
| Inner conductor max. current load capacity:             | 3 A              |

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Item HFS-840-0685



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### Electrical data

Frequency range up to:  
Impedance:

4 GHz  
50 Ohm

### Mechanical data

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| Total spring force at working stroke:   | 10 N [35.9 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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