# Radio-frequency probe

# HFS-819 355 051 A 20742 V8

Item HFS-819-0049

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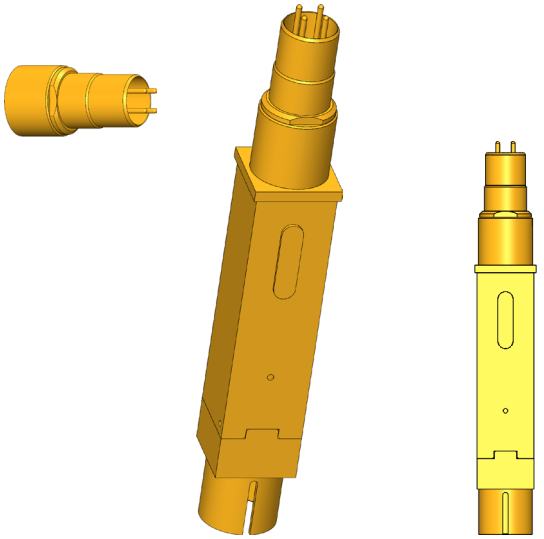
Partner for Future Technology

- For testing HSD connectors (Rosenberger)
- Used for the transmission of high-speed data for navigation and entertainment in automotive engineering.
- For high data rates, e.g. LVDS signals, GVIF or USB
- Freely movable bearing
- Installation: press directly into the mounting plate or via flange mounting
- Cable interface optionally with original HSD plug as well as INGUN plug



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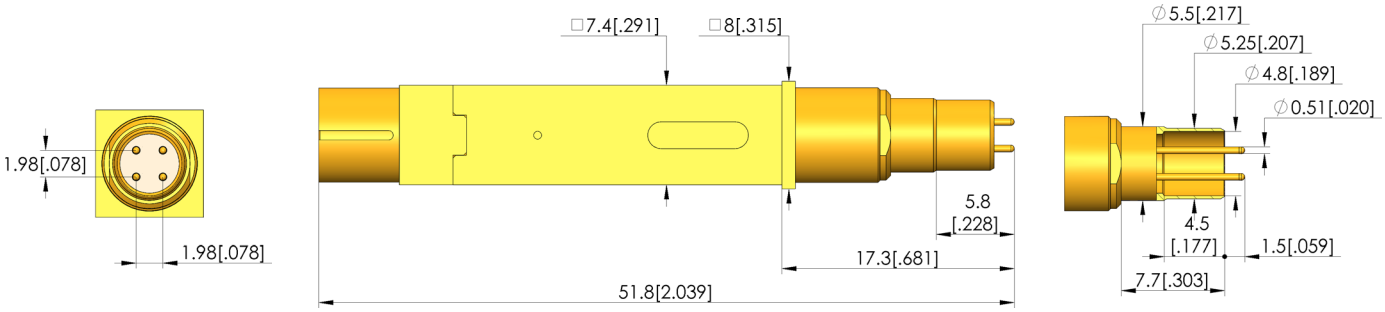


## General data

| | |
|---|---|
| Product group: | HFS radio-frequency test probes |
| Series: | HFS-819 |
| Sub-series: | HFS-819 plug, press-in |
| Grid: | 12 mm [472 mil] |
| DUT / contact: | HSD |
| Installation type: | Plug-in |
| DUT interface gender : | F signal conductor female / socket |
| Floating mount: | No |
| Non-rotating: | Yes |
| Continuous plunger: | Yes |
| Interface of compatible assembly: | SE-819 V2 plug, press-in, for HFS-819 |
| Compatible assembly interface gender : | F signal conductor female / socket |
| KS sub-series: | HAS-819 160, HAS-819D8 160 floating 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: | 5.3 mm [.208 in] |
| Spring force of entire outer conductor at working stroke: | 15.5 N [55.7 ozf] |
| Outer conductor working stroke: | 5 mm [.196 in] |
| Outer conductor maximum stroke: | 6 mm [.236 in] |
| Exchangeable outer conductor: | KO-819142525A-V8 |
| Outer conductor max. current load capacity: | 10 A |

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## Inner conductor data

| | |
|---|---|
| Inner conductor tip style: | 55 bullet-nosed, special length |
| Inner conductor tip style diameter: | 0.51 mm [.020 in] |
| Inner conductor tip style material: | 3 CuBe |
| Inner conductor tip style surface: | A gold |
| Number of inner conductors: | 4 2 differential pair |
| Exchangeable inner conductor: | GKS-051-0039 |
| 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 |

## Electrical data

| | |
|---|---|
| Impedance: | 100 Ohm |
| Max. data rate: | 1.5 Gbit/s |
| Dielectric strength: | 1.2 kV |

## Mechanical data

| | |
|---|---|
| Total spring force at working stroke: | 20.7 N [74.4 ozf] |
| Total length: | 51.8 mm [2.03 in] |
| Barrel diameter: | 7.4 mm [.291 in] |
| Installation height without receptacle: | 17.3 mm [.681 in] |

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