



HF66-0008 HSC 6 F SMA

**Contacting
HSC (Male)**

NEW

Centers (mm/mil)	10,0 / 394
Current (Circular)	0,5 A
Current (Internal)	0,1 A
Impedance [Z]	50 Ohm
Frequency	6 GHz
Temperature	-20°C...+80°C

Spring Force (cN ±20%)

	Preload	Nominal
Total	-	480
Internal Cont.	95	120
Circular Cont.	240	360

Travel (mm)

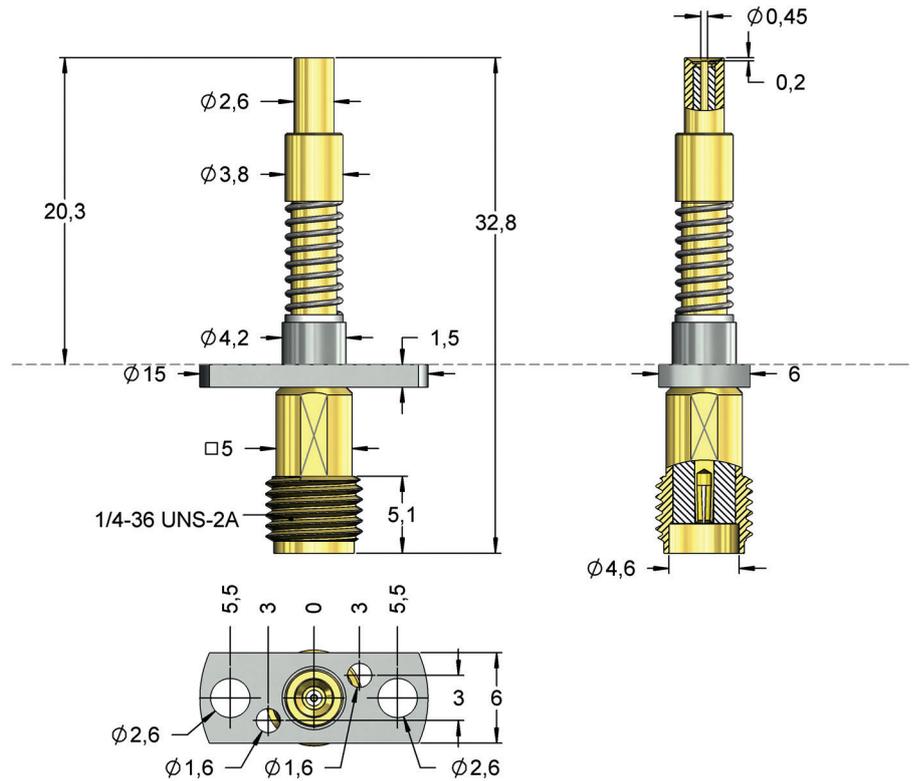
	Nominal	Maximum
Internal Cont.	0,5	0,8
Circular Cont.	1,5	1,8
Thread		1/4"
Wrench Size		5,0

Materials and Plating

Internal Cont.	BeCu, gold plated
Circular Cont.	Brass, gold plated
Barrel	Brass, gold plated
Spring Internal Cont.	Music Wire, gold plated
Spring Circular Cont.	Stainless steel, unplated

Accessories

Connection element up to 6 GHz	H66AE1
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The probe can be mounted with a flange.
Cable connection with standard connector SMA male.

RADIO FREQUENCY PERFORMANCE

Typical insertion loss	DC up to 3 GHz	3 GHz up to 6 GHz
Maximum	0,4 dB	0,6 dB
Typical return loss	DC up to 3 GHz	3 GHz up to 6 GHz
Minimum	19 dB	16 dB

This table shows the reference values in the middle and at the end of the recommended frequency.

Order Code	Description	Sensepin	Tip Style	Ø A	Ø B	C	H	L	Version
HF66-0008	HF66-0008 HSC 6 F SMA		16	0,45	2,60	-0,20	21,80	32,80	-



CONNECTION CABLES

for Types HF860/HF66

Connection Cables for HF860

Connection element with pre-assembled coaxial cable RG 316.
Impedance: 50 Ohm
Cutoff frequency: recommended up to **3 GHz**

H86oAE1	 MCX-M straight	Coax cable 3GHz 700 mm	unassembled
H86oAE3	 MCX-M straight	Coax cable 3GHz 700 mm	 SMA-M straight
H86oAE4	 MCX-M straight	Coax cable 3GHz 700 mm	 BNC--M straight

Connector with pre-assembled coaxial cable Multiflex 86.
Impedance: 50 Ohm
Cutoff frequency: recommended up to **10 GHz**

H86oAE2	 MCX-M straight	Coax cable 10GHz 700 mm	 SMA-M straight
H86oAE5	 MCX-M straight	Coax cable 10GHz 1500 mm	 SMA-M straight
H86oAE6	 MCX-M angled	Coax cable 10GHz 800 mm	 SMA-M grade

Connection Cables for HF66

Connector with pre-assembled highly flexible coaxial cable.
Impedance: 50 Ohm
Cutoff frequency: recommended up to **6 GHz**

H66AE1	 SMA-M angled	Coax cable 6GHz 700 mm	 mSMP-F straight
H66AE2	 SMA-M straight	Coax cable 6GHz 700 mm	 mSMP-F straight
H66AE3	 SMA-M angled	Coax cable 6GHz 300 mm	 SMA-M straight



Mounting of the new RF series

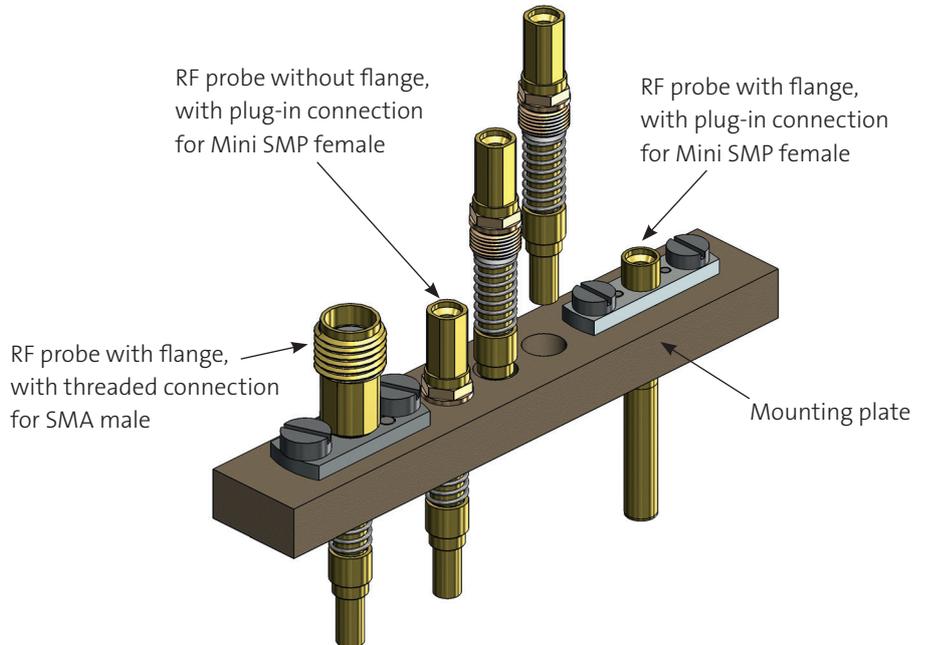
Mounting Options

For the new RF probe series HF66 and HF05 different mounting options are possible.

Some probes can be threaded directly into the mounting plate.

Some versions have a flange that is screwed to the mounting plate, this version allows a simple adjusting and contacting of the DUT. The drill hole for mounting needs to have a sufficient diameter to allow a movement of the probe.

Mounting example 1



Mounting with Flange

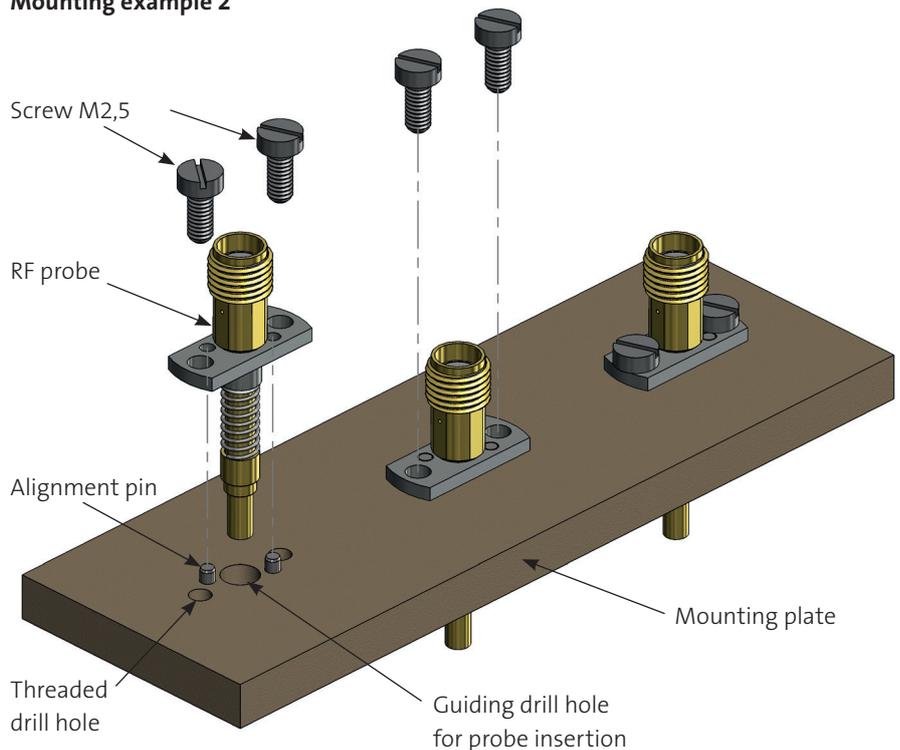
For mounting RF probes with flange drill holes for the centering pins, threaded holes for the fixing screws as well as guiding holes for the probe are needed. These need to correspond with the pattern of the flange.

At first, the RF probe is inserted into the guiding hole and brought into the correct position with the alignment pins.

Afterwards the RF probe can be fixed with the screws.

The last step is the connection of the probe with a suitable connection cable. We recommend coaxial cables with low attenuation and low stiffness, because the cables move with the end of the probe when the probe is compressed and they need to allow a certain movement of the probes.

Mounting example 2





Mounting of the new RF series

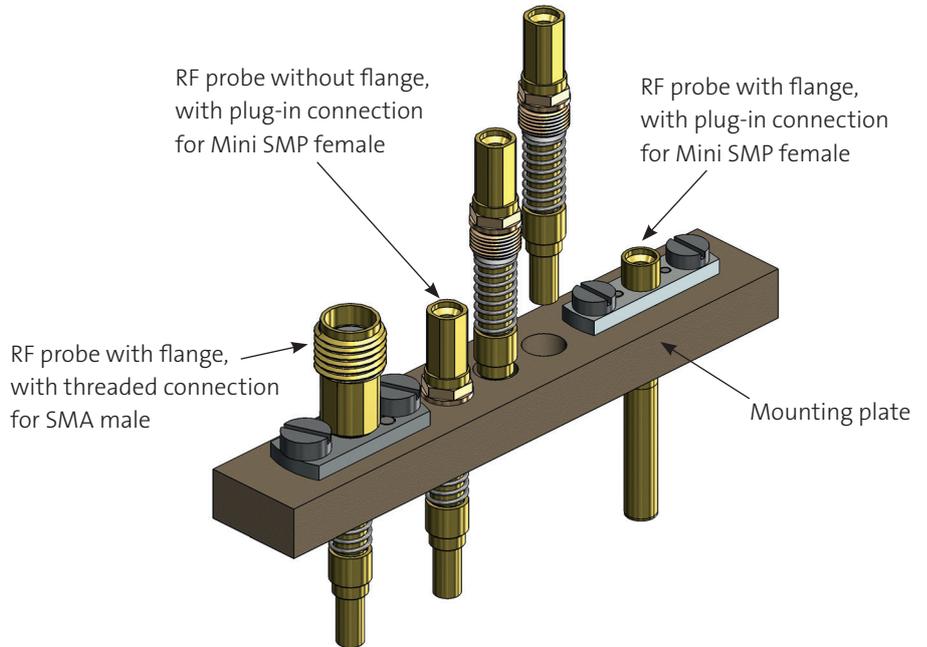
Mounting Options

For the new RF probe series HF66 and HF05 different mounting options are possible.

Some probes can be threaded directly into the mounting plate.

Some versions have a flange that is screwed to the mounting plate, this version allows a simple adjusting and contacting of the DUT. The drill hole for mounting needs to have a sufficient diameter to allow a movement of the probe.

Mounting example 1



Mounting with Flange

For mounting RF probes with flange drill holes for the centering pins, threaded holes for the fixing screws as well as guiding holes for the probe are needed. These need to correspond with the pattern of the flange.

At first, the RF probe is inserted into the guiding hole and brought into the correct position with the alignment pins.

Afterwards the RF probe can be fixed with the screws.

The last step is the connection of the probe with a suitable connection cable. We recommend coaxial cables with low attenuation and low stiffness, because the cables move with the end of the probe when the probe is compressed and they need to allow a certain movement of the probes.

Mounting example 2

