HF66

6 GHz | FAKRA Male

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	3
Current Circular [A]	10
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	110	500
Spring force at nt (cN ±20%)	150	665
Nominal travel (mm)	1.0	2.0
Maximum travel (mm)	1.3	3.0

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Receptacle	Brass	gold plated

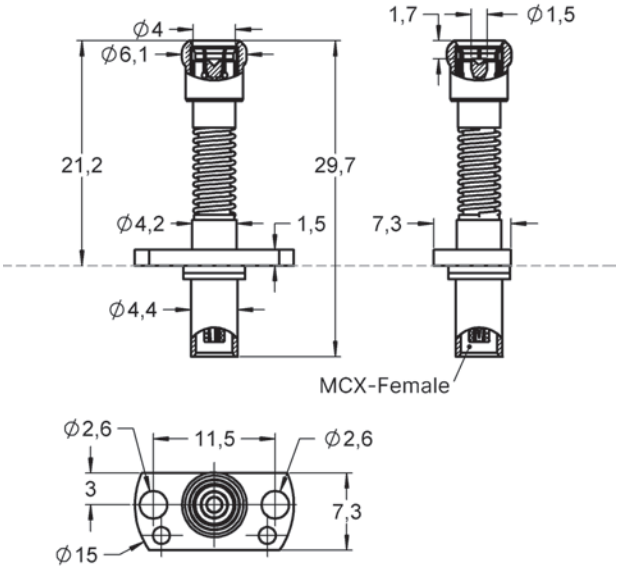
Accessories

1037622	F08305B150G150	Inner pin
1035933	FZWZ-005	Assembly tool
Interface	MCX Female	see page 130

Order code	Product name
1037623	HF66FAKRAm016G775MCXfF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

Typical **insertion loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Maximum	0.40 dB	0.60 dB
Typical **return loss**	DC up to 10 GHz	3 GHz up to 20 GHz
Minimum	17 dB	12 dB

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

HF66

6 GHz | U.FL Male

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	280
Spring force at nt (cN ±20%)	120	420
Nominal travel (mm)	0.5	1.5
Maximum travel (mm)	0.8	2.2

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	BeCu	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

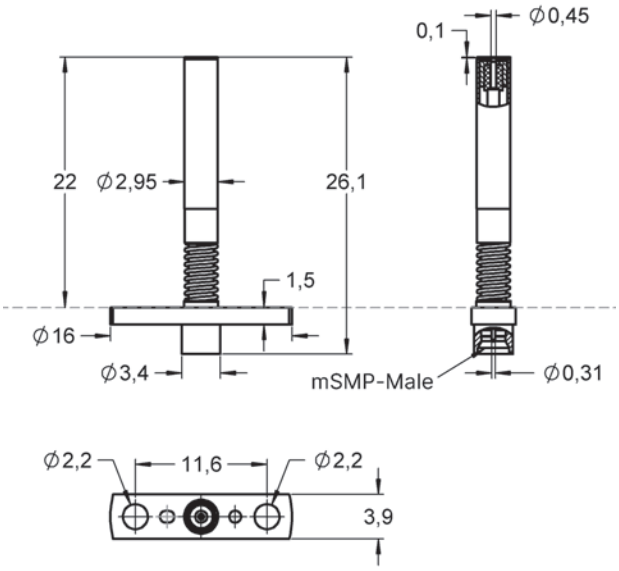
Accessories

Interface	mSMP Male	see page 128

Order code	Product name
1024470	HF66MHF/UFL016G540MSMPmF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

Typical **insertion loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Maximum	0.4 dB	0.7 dB
Typical **return loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Minimum	20 dB	14 dB

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

HF66

8 GHz | U.FL Male

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	1
Current Circular [A]	5
Impedance [Ohm]	50
Frequency [GHz]	8

Mechanical specifications

	Signal	Ground
Preload (cN)	95	300
Spring force at nt (cN ±20%)	120	540
Nominal travel (mm)	0.5	1.0
Maximum travel (mm)	0.9	1.7

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	BeCu	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

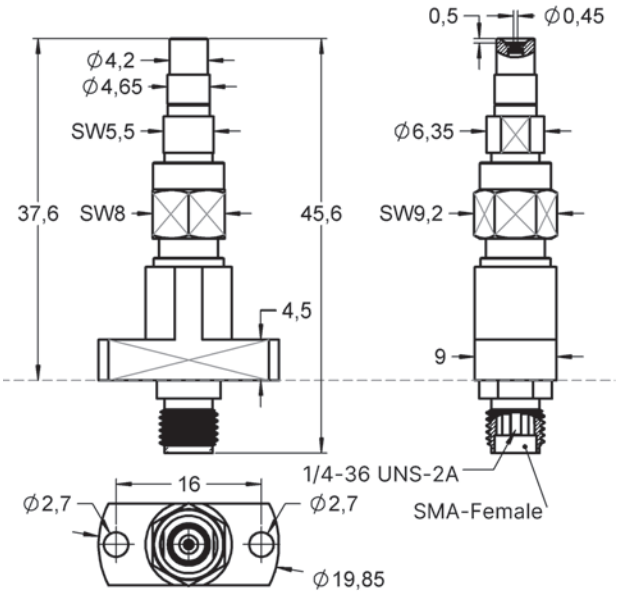
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1036633	HF66UFL018G620SMAfF

Series drawing

All measurements are in mm.



HF66

6 GHz | MHF4 / HSC

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	1
Current Circular [A]	5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	240
Spring force at nt (cN ±20%)	120	360
Nominal travel (mm)	0.5	2.0
Maximum travel (mm)	0.8	3.0

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	BeCu	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

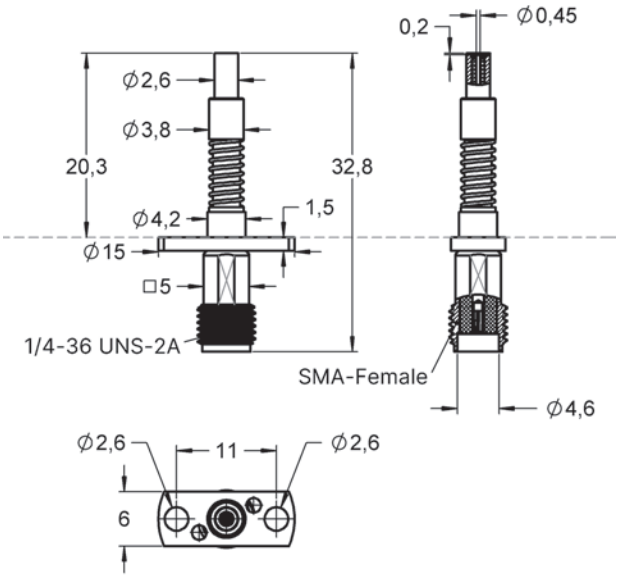
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1024464	HF66HSC016G480SMAfF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

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.

HF66

6 GHz | HSC

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	1
Current Circular [A]	5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	240
Spring force at nt (cN ±20%)	120	360
Nominal travel (mm)	0.5	2.0
Maximum travel (mm)	0.8	3.0

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	BeCu	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

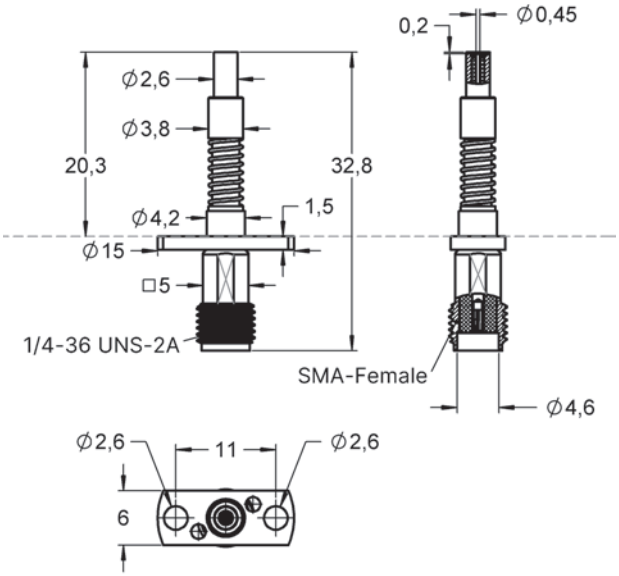
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1024464	HF66HSC016G480SMAfF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

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.

HF66

6 GHz | SWD / SWF / SWG

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	120	240
Spring force at nt (cN ±20%)	210	450
Nominal travel (mm)	2.0	2.0
Maximum travel (mm)	3.0	4.5

Materials and plating

Contact Signal	Brass	gold plated
Contact Ground	Brass	gold plated
Barrel	BeCu	gold plated
Spring Signal	Spring steel	silver plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

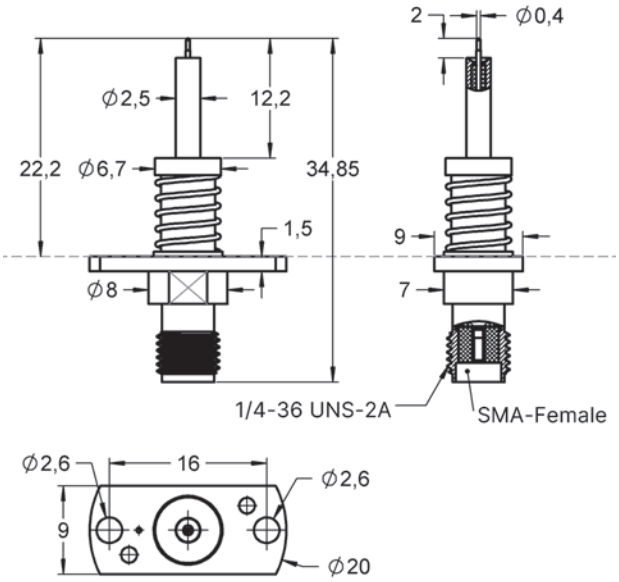
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1024469	HF66SWD/F/G016G660SMAfF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

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	21 dB	13 dB

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

HF66

6 GHz | SWF

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	110	120
Spring force at nt (cN ±20%)	180	240
Nominal travel (mm)	0.8	2.2
Maximum travel (mm)	3.3	4.0

Materials and plating

Contact Signal	Brass	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Spring steel	gold plated
Flange	Brass	nickel plated

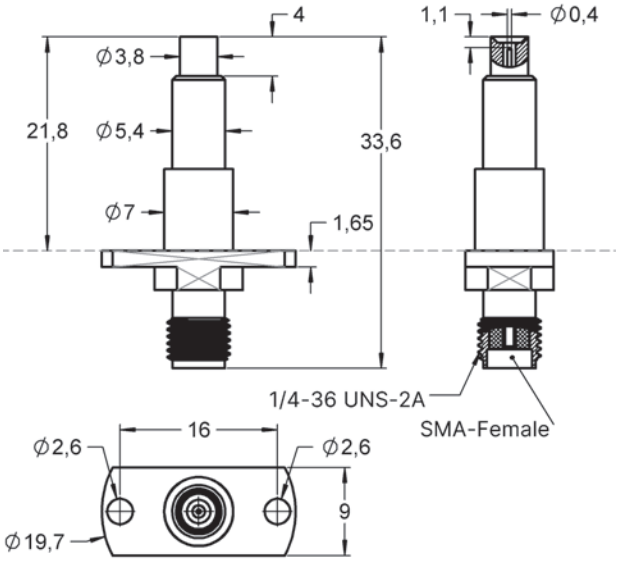
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1029250	HF66SWF016G420SMAfF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

Typical **insertion loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Maximum	0.5 dB	0.7 dB
Typical **return loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Minimum	12 dB	10 dB

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

HF66

6 GHz | SWG

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	140
Spring force at nt (cN ±20%)	120	220
Nominal travel (mm)	0.5	1.5
Maximum travel (mm)	1.5	1.8

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

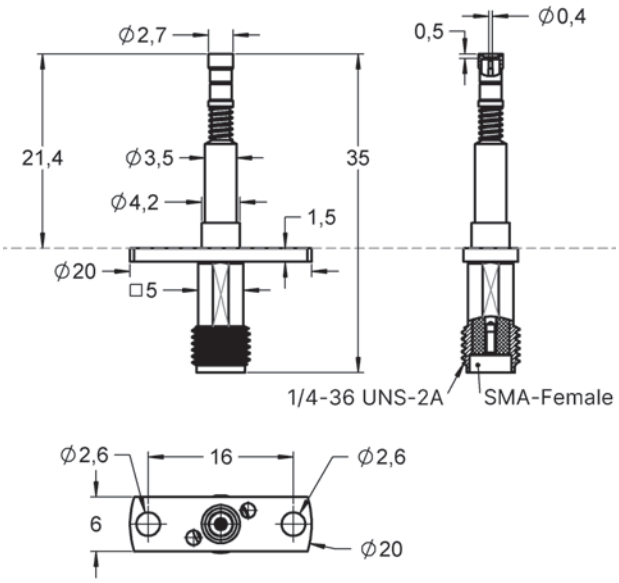
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1024463	HF66SWG016G340SMAfF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

Typical **insertion loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Maximum	0.6 dB	0.8 dB
Typical **return loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Minimum	18 dB	14 dB

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

HF66

6 GHz | SWG

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	100	220
Spring force at nt (cN ±20%)	120	400
Nominal travel (mm)	0.3	0.8
Maximum travel (mm)	1.1	1.5

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	BeCu	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Spring steel	gold plated
Flange	Brass	gold plated

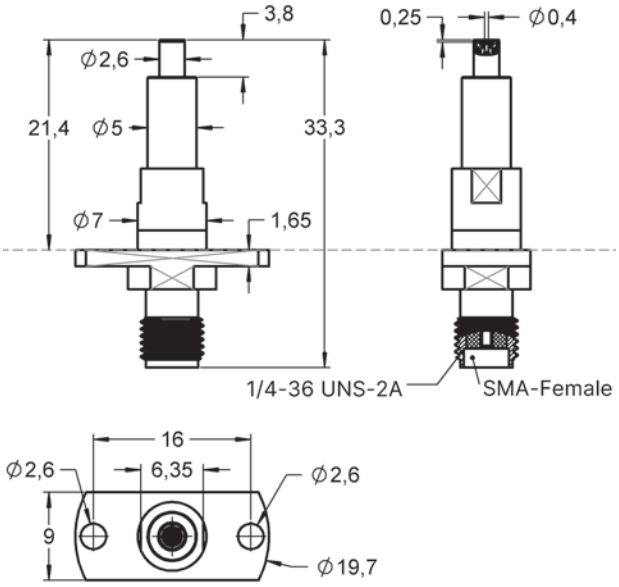
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1105636	HF66SWG016G520SMAfF

Series drawing

All measurements are in mm.



HF66

6 GHz | SWJ

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	150
Spring force at nt (cN ±20%)	120	420
Nominal travel (mm)	0.5	2.2
Maximum travel (mm)	0.8	3.0

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

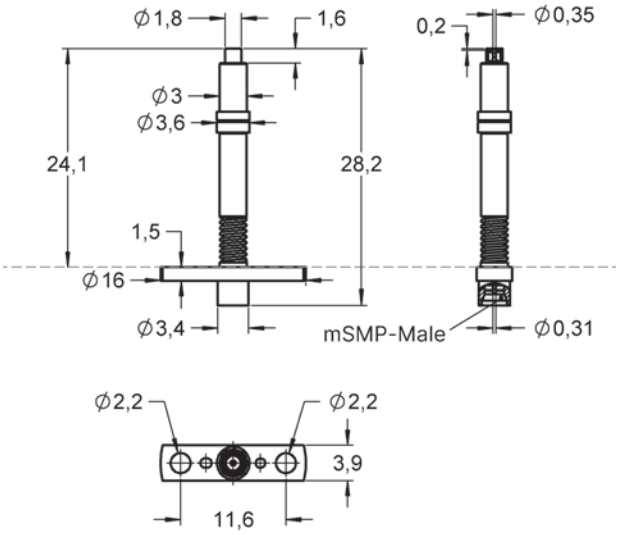
Accessories

Interface	mSMP Male	see page 128

Order code	Product name
1024455	HF66SWJ016G540MSMPmF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

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	22 dB	16 dB

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

HF66

6.5 GHz | SWJ

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6.5

Mechanical specifications

	Signal	Ground
Preload (cN)	95	190
Spring force at nt (cN ±20%)	120	500
Nominal travel (mm)	0.5	3.2
Maximum travel (mm)	0.8	3.9

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

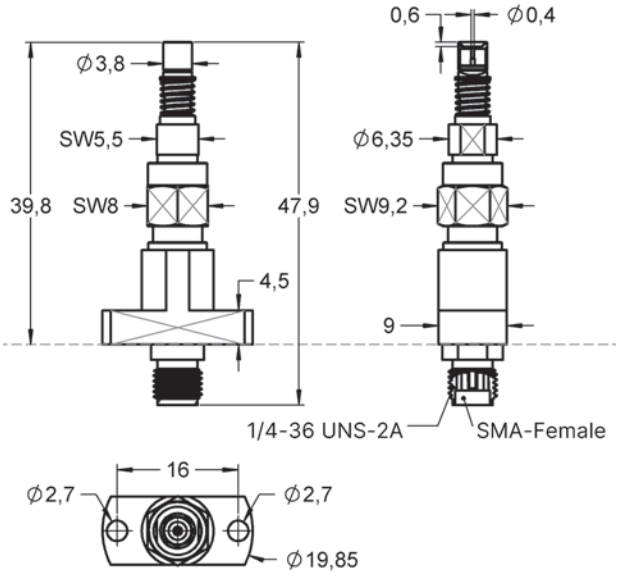
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1042572	HF66SWJ016.5G620SMAfF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

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	22 dB	16 dB

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

HF66

6.5 GHz | JSC

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	280
Spring force at nt (cN ±20%)	120	420
Nominal travel (mm)	0.5	1.5
Maximum travel (mm)	0.8	2.2

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated

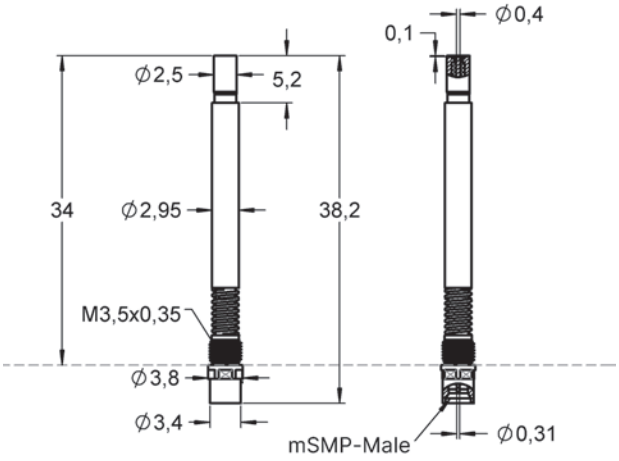
Accessories

Interface	mSMP Male	see page 128

Order code	Product name
1024458	HF66JSC016G640MSMPmS

Series drawing

All measurements are in mm.



Radio Frequency perfomance

Typical **insertion loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Maximum	0.5 dB	0.7 dB
Typical **return loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Minimum	18 dB	13 dB

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

HF66

6 GHz | JSC

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	190
Spring force at nt (cN ±20%)	120	500
Nominal travel (mm)	0.5	3.2
Maximum travel (mm)	0.8	3.9

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated

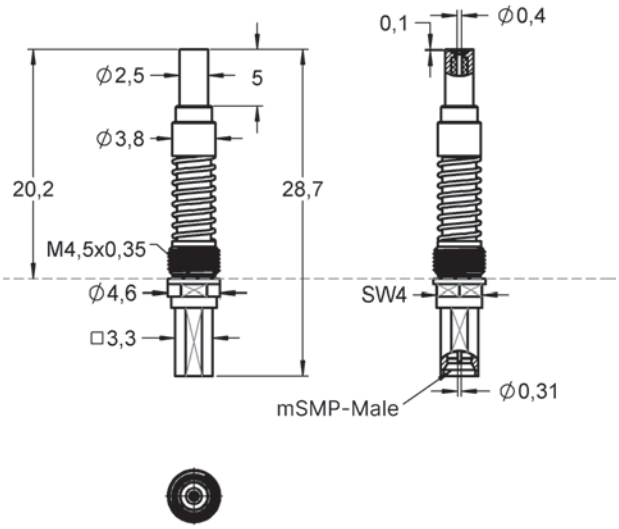
Accessories

Interface	mSMP Male	see page 128

Order code	Product name
1024466	HF66JSC016G480MSMPmS

Series drawing

All measurements are in mm.



Radio Frequency perfomance

Typical **insertion loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Maximum	0.4 dB	0.7 dB
Typical **return loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Minimum	20 dB	14 dB

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

HF66

6 GHz | JSC

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	240
Spring force at nt (cN ±20%)	120	360
Nominal travel (mm)	0.5	2.0
Maximum travel (mm)	0.8	3.0

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

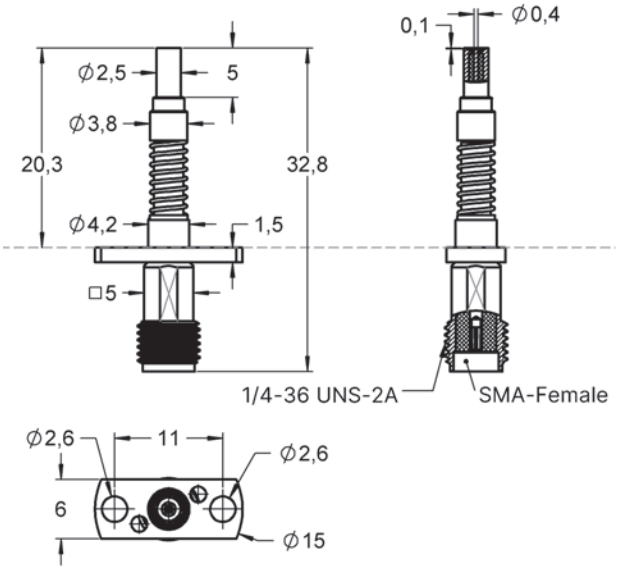
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1024468	HF66JSC016G480SMAfF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

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.

HF66

6 GHz | SWH

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	240
Spring force at nt (cN ±20%)	120	360
Nominal travel (mm)	0.5	2.0
Maximum travel (mm)	0.8	3.0

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated

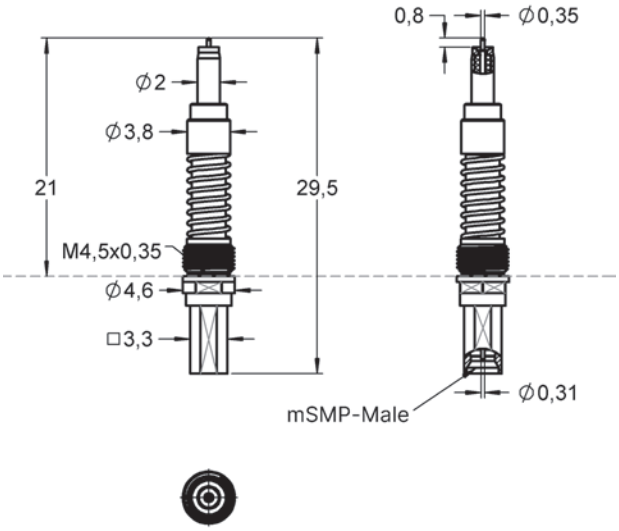
Accessories

Interface	mSMP Male	see page 128

Order code	Product name
1024465	HF66SWH016G480MSMPmS

Series drawing

All measurements are in mm.



Radio Frequency perfomance

Typical **insertion loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Maximum	0.4 dB	0.7 dB
Typical **return loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Minimum	20 dB	14 dB

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

HF66

6 GHz | KSC

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	150
Spring force at nt (cN ±20%)	120	420
Nominal travel (mm)	0.5	2.0
Maximum travel (mm)	0.8	2.7

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

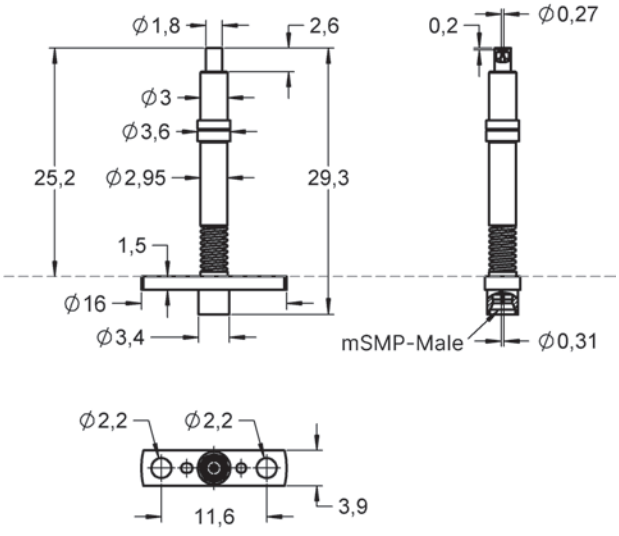
Accessories

Interface	mSMP Male	see page 128

Order code	Product name
1024461	HF66KSC016G540MSMPmF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

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	22 dB	16 dB

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

HF66

6 GHz | KSC

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	240
Spring force at nt (cN ±20%)	120	360
Nominal travel (mm)	0.5	2.0
Maximum travel (mm)	0.8	3.0

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

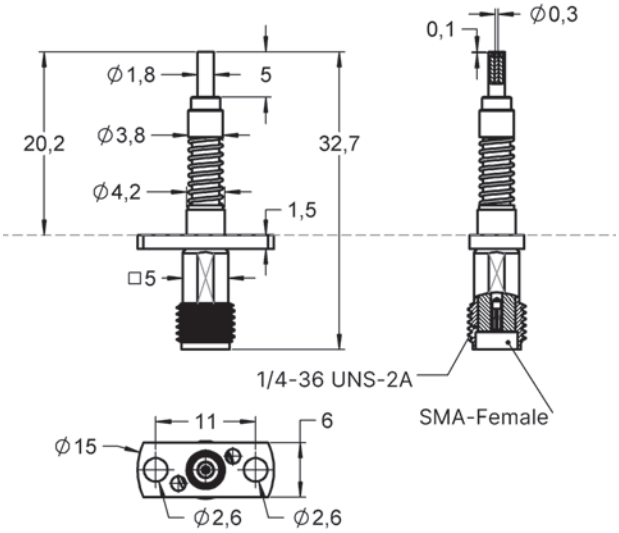
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1024459	HF66KSC016G480SMAfF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

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	18 dB	15 dB

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

HF66

6 GHz | LSC

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	280
Spring force at nt (cN ±20%)	120	420
Nominal travel (mm)	0.5	1.5
Maximum travel (mm)	0.8	2.2

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

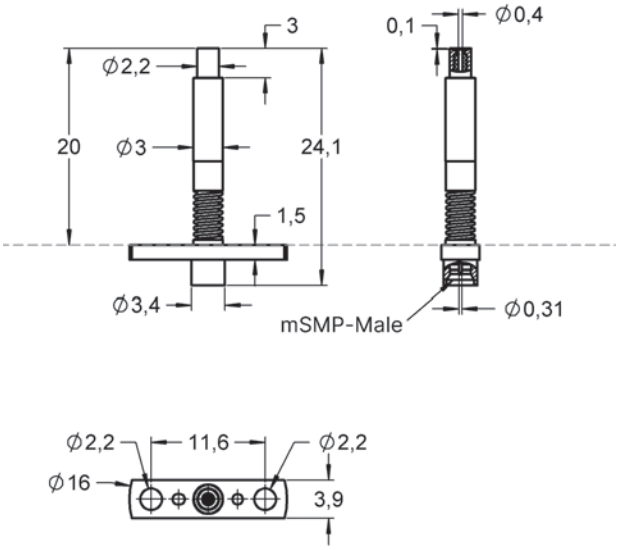
Accessories

Interface	mSMP Male	see page 128

Order code	Product name
1024460	HF66LSC016G540MSMPmF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

Typical **insertion loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Maximum	0.5 dB	0.8 dB
Typical **return loss**	DC up to 3 GHz	3 GHz up to 6 GHz
Minimum	20 dB	14 dB

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

HF66

6 GHz | LSC

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	6

Mechanical specifications

	Signal	Ground
Preload (cN)	95	240
Spring force at nt (cN ±20%)	120	360
Nominal travel (mm)	0.5	2.0
Maximum travel (mm)	0.8	3.0

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

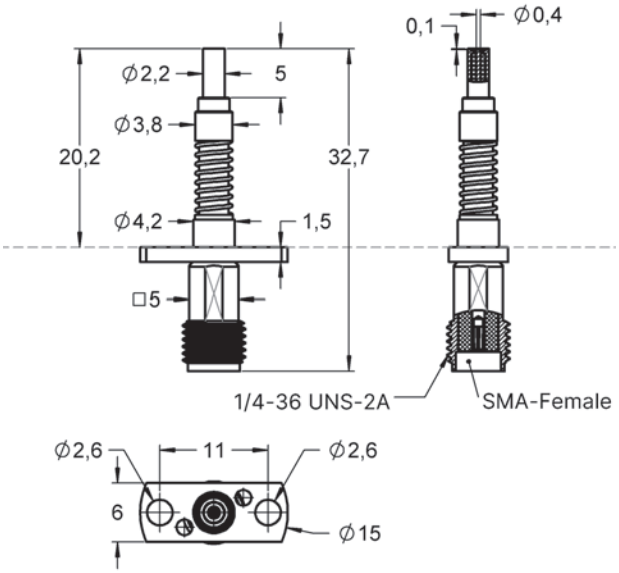
Accessories

Interface	SMA Female	see page 130

Order code	Product name
1024467	HF66LSC016G480SMAfF

Series drawing

All measurements are in mm.



Radio Frequency perfomance

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.

HF66

18 GHz | SMP Male

Electrical specifications

Temperature [°C]	-45°...+100°
Current Internal [A]	0.1
Current Circular [A]	0.5
Impedance [Ohm]	50
Frequency [GHz]	18

Mechanical specifications

	Signal	Ground
Preload (cN)	95	240
Spring force at nt (cN ±20%)	120	360
Nominal travel (mm)	0.5	2.0
Maximum travel (mm)	0.8	3.0

Materials and plating

Contact Signal	BeCu	gold plated
Contact Ground	Brass	gold plated
Barrel	Brass	gold plated
Spring Signal	Spring steel	gold plated
Spring Ground	Stainless steel	unplated
Flange	Brass	nickel plated

Accessories

Interface	SMA Female	see page 130

Order code	Product name
1039136	HF66SMPm0118G480SMAfF

Series drawing

All measurements are in mm.