

HFS 810 / 840

Coaxial RF-Test Probe, 50 Ω, 2 or 4 GHz

Grid:

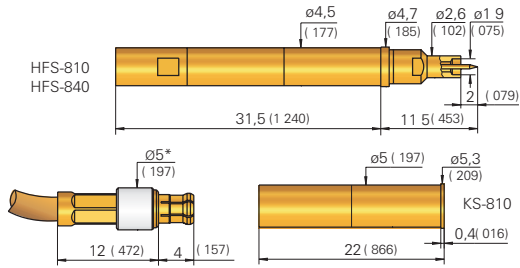
≥ 5,08 mm

≥ 200 Mil

Installation Height: 11,5 mm (.453)

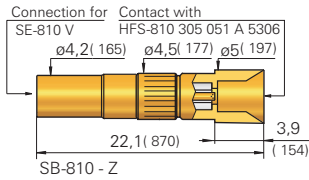
Recommended Stroke: 4,0 mm (.157)

Mounting and Functional Dimensions



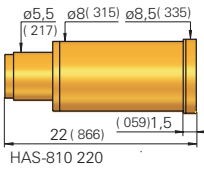
SE-810 V (*diameter 5,0 mm insulated)
SE-810 V-U (*diameter 5,0 mm not insulated)

Interface Contact



SB-810 - Z

Flexible Receptacle

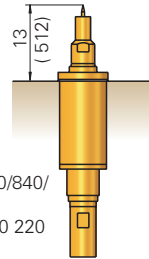


HAS-810 220

Spring Force

The Spring-Loaded Inner- and Outer Conductors are available with different Spring Forces (see „Mechanical Data“). To create the Ordering No. the individual values must be added together (see also „Ordering Example“ below).

Spring Force of Inner Conductor (N)	Spring Force of Outer Conductor (N)	Character for ordering
1,3	4,0	53
2,0	4,0	60
1,3	8,0	93
2,0	8,0	99



HFS 810/840/
860 in
HAS 810 220

Mechanical Data

Working Stroke: 4,0 mm (.157)
Maximum Stroke: 5,0 mm (.197)
Spring Force at Working Stroke
Outer Cond.: 4,0 N (14.4oz); 8,0 N (28.8oz)
Inner Cond.: 1,3 N (4.7oz); 2,0 N (7.2oz)

Materials Outer Conductor

Plunger: BeCu or Brass, gold-plated
Barrel: Brass, gold-plated
Spring: Stainless Steel
Receptacle: Brass, gold-plated
Insulation: Teflon

Electrical Data

Frequency Range with HFS-810: bis 2 GHz
Frequency Range with HFS-840: bis 4 GHz
Frequency Range with HFS-860: bis 6 GHz
Current Rating:
- Outer Conductor: 8 - 10 A
- Inner Conductor: 2 - 3 A
R_i typical, Inner Conductor: ≤ 10 mΩ
Impedance Test Probe: 50 Ω
Impedance Cable: 50 Ω

Materials Inner Conductor

Plunger: BeCu or Steel, gold-plated
Barrel: Bronze, gold-plated
Spring: Steel, gold-plated

Operating Temperature

Standard: -40 up to +80 °C

Available Tip Styles for replaceable Inner Conductor

Material	Tip Style	Plating	Further Versions	
			Ø	Ø (inch)
2	01	A	Ø 0,51 (.020)	
3	03	A	Ø 1,50 (.059)	
3	05	A	Ø 0,51 (.020)	
3	08	A	Ø 0,80 (.031)	

Inner Conductor replaceable

Ordering Example: GKS-051 201 051 A 1300

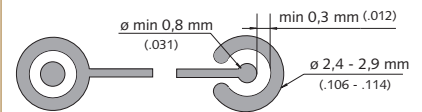
Available Tip Styles

Outer Plunger (secured against rotation)

02		
02 S		
06		
06 S		

Layout Suggestions

for above mentioned Standard Outer Plungers



Outer Plunger ring shaped

Outer Plunger with slit (*S)

Mounting Hole Size

with Receptacle KS 810: Ø 4,98 - 4,99 mm (.1961 - .1965)
with HAS-810 220: Ø 7,98 - 7,99 mm (.3142 - .3146)
without Receptacle: Ø 4,5 mm (.1772)

Ordering Example

Series	Tip Material	Tip Style	Tip Diameter (1/100 mm)	Plating	Spring Force (dN)	Outer Plunger	Outer Plunger slit (S)
2 = Steel	3 = BeCu			A = Gold			

Test Probe with flat Outer Plunger:

H F S 8 1 0 2 0 1 0 5 1 A 5 3 0 2

Test Probe with serrated Outer Plunger:

H S S 8 1 0 2 0 1 0 5 1 A 6 0 0 6

MCX-Connector with RF-Coaxial Cable RG 316/ U pre-wired, Length 0,7m (Special Length on request):

S E - 8 1 0 V - U (Grid > 5,08 mm) S E - 8 1 0 V (Grid 5,08 mm)

Receptacle:

K S - 8 1 0