

HFS 810 / 840

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

Grid:

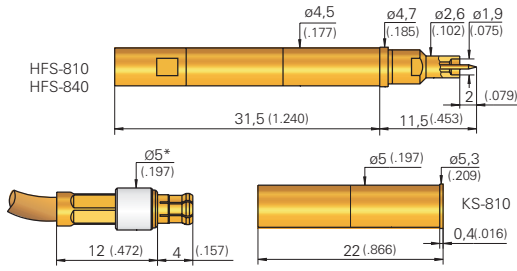
≥ 5,08 mm

≥ 200 Mil

Installation Height: 11,5 mm (.453)

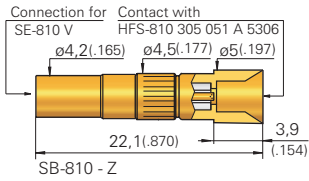
Recommended Stroke: 4,0 mm (.157)

Mounting and Functional Dimensions

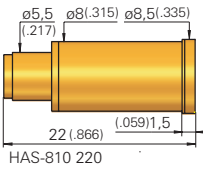


SE-810 V (*diameter 5,0 mm insulated)
SE-810 V-U (*diameter 5,0 mm not insulated)

Interface Contact



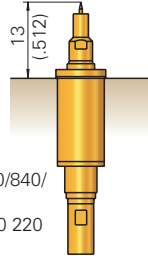
Flexible Receptacle



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



Available Tip Styles for replaceable Inner Conductor

Material	Tip Style	Plating	Further Versions	
			∅	∅ (inch)
2	01	A		
3	03	A	0,90 1,54	A A
2	04	A		
3	05	A		
3	06	A		
3	07	A		
3	08	A	1,80	A
3	19	A		

Inner Conductor replaceable
Ordering Example: GKS-051 201 051 A 1300

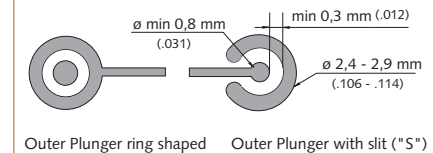
To change the inner-conductor, the outer plunger must be screwed off. Tools for disassembly and assembly: GS-810 SW 3,5 und GS-810 SW 4,0

Available Tip Styles Outer Plunger (secured against rotation)

02	
02 S	1,6
06	
06 S	1,6

Layout Suggestions

for above mentioned Standard Outer Plungers



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

Mounting Hole Size

with Receptacle KS 810: ∅ 4,98 - 4,99 mm (.1961 - .1965)
with HAS-810 220: ∅ 7,98 - 7,99 mm (.3142 - .3146)
without Receptacle: ∅ 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				A = Gold			
3 = BeCu							

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):

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

Receptacle:

K S - 8 1 0