

# HSS 118

High Current Probe up to 20 A  
Plug-in Test Probe

Grid:

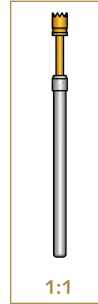
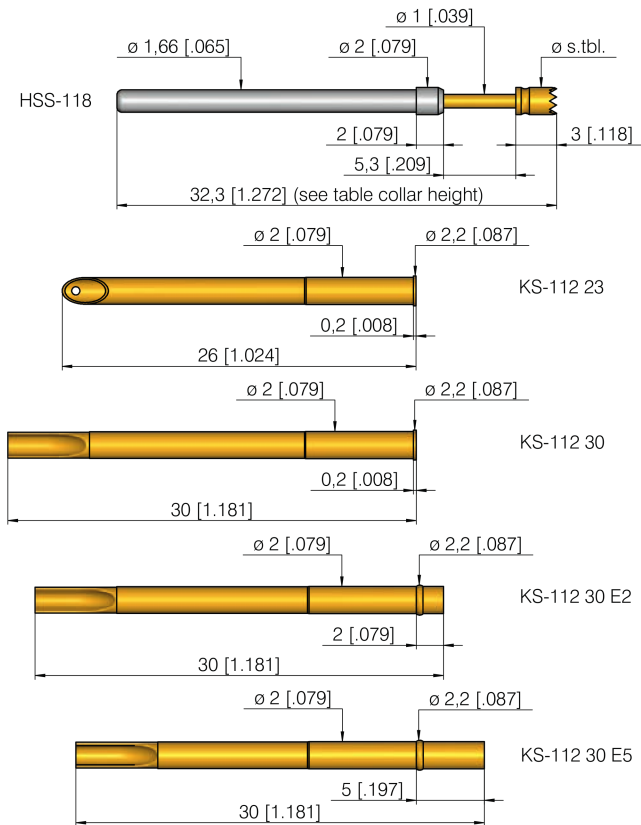
≥ 2,54 mm

≥ 100 Mil

Installation height with KS: 10,5 resp. 18,5 mm (.413/ .728)

Recommended stroke: 4,0 mm (.157)

## Mounting and functional dimensions



## Available tip styles

Material	Tip style	Plating	Further versions	
			$\varnothing$	$\varnothing$ (inch)
3 02		A	$\varnothing 1,00$ (.039)	
3 03		A	$\varnothing 2,00$ (.079)	
3 05		A	$\varnothing 0,80$ (.031)	0,65 (.026)
3 05		A	$\varnothing 1,00$ (.039)	
3 05*		S	$\varnothing 2,00$ (.079)	
3 06		A	$\varnothing 2,00$ (.079)	1,30 (.051) 1,60 (.063) 1,80 (.071) 2,50 (.098) 3,50 (.138)
2 14		A	$\varnothing 1,30$ (.051)	
3 17		A	$\varnothing 1,75$ (.069)	2,00 (.079)
3 19		A	$\varnothing 2,00$ (.079)	
3 53**		S	$\varnothing 2,00$ (.079)	

\* pressed-on silver head

\*\* pressed-on silver head, tip length 3,5 mm (.138)  
installation height plus 0,5 mm (.020)

Collar height	02	03	04	05	06	07	08	09	10
Total length (mm)	32,3	32,3	34,3	35,3	36,3	37,3	38,3	39,3	40,3
Installation height without receptacle (mm)	10,3	11,3	12,3	13,3	14,3	15,3	16,3	17,3	18,3

### Compatible GKS

GKS-112 (assembled in same receptacle)

### Materials

**Plunger:** BeCu or steel, gold-plated  
**Barrel:** Brass, silver-plated  
**Spring:** Stainless steel, gold-plated  
**Receptacle:** Brass, gold-plated

### Operating temperature

Standard: -100° up to +200° C

### Mounting hole size

for KS-112 xx

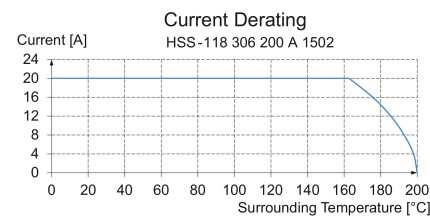
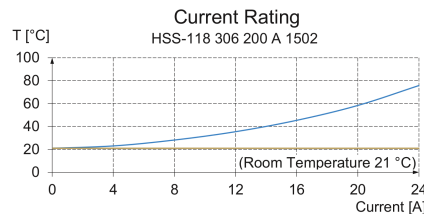
in CEM1:  $\varnothing 1,98 - 2,00$  mm (.0780 - .0787)

in FR4:  $\varnothing 1,99 - 2,01$  mm (.0783 - .0791)

### Electrical data

**Current rating (at room temp.):** max. 20 A with spring force  $\geq 1,5$  N and BeCu plunger (\*\*\*) spring force  $< 1,5$  N not recommended for high current applications)

**R<sub>j</sub> typical:** < 10 m $\Omega$



### Mechanical data

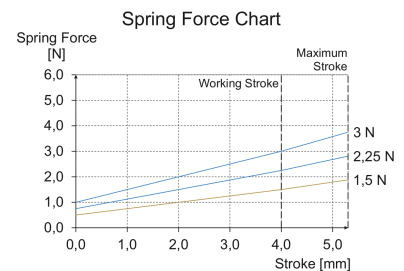
**Working stroke:** 4,0 mm (.157)

**Maximum stroke:** 5,3 mm (.209) for tip styles with diameter  $\leq 1$  mm (.039)

**Maximum stroke:** 8,0 mm (.315)

**Spring force at work. stroke:** 1,5 N (5.4oz)

**Alternative:** 0,8 N (2.9oz)\*\*\*; 2,25 N (8.1oz); 3,0 N (10.8oz)



## Ordering example

Series      Tip material      Tip style      Tip diameter (1/100 mm)      Plating      Spring force (dN)      Collar height (mm)

2 = Steel      3 = BeCu      A = Gold      S = silver

Test probe:

H S S 1 1 8 3 0 6 2 0 0 A 1 5 0 2

Receptacles:

K S - 1 1 2 2 3      K S - 1 1 2 3 0      K S - 1 1 2 3 0 E 2 / E 5