

HSS 118 M

Screw-in High-Current Test Probe

Grid:

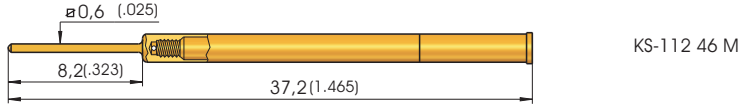
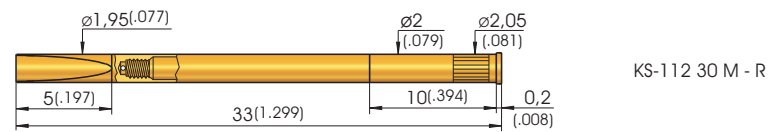
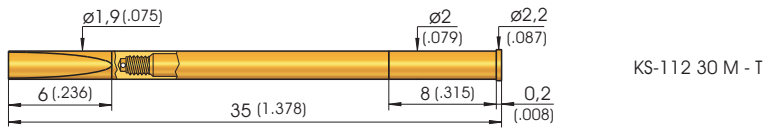
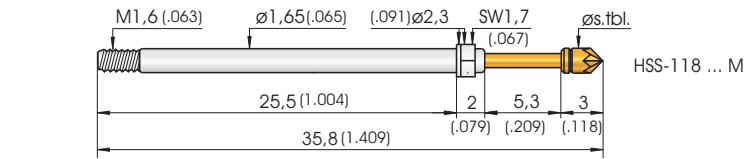
≥ 2,54 mm

≥ 100 Mil

Installation Height: 10,5 mm (.413)

Recommended Stroke: 4,0 / 6,4 mm (.157 / .252)

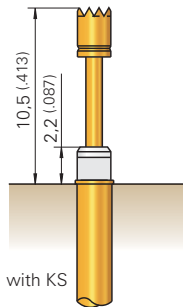
Mounting and Functional Dimensions



**** axially positioned trough-hole for leakage test. Attention: when not assembled correctly, then solder can flow inside the receptacle.

Collar Height and Installation Height

The Installation Height of the Tip is always 10,5 mm (.413). Test Probe can only be used with Receptacle.



Mechanical Data

Working Stroke: 4,0 mm (.157)
Maximum Stroke: 5,3 mm (.209)
Spring Force at Work. Stroke: 1,5 N (5.4oz)
alternative: 0,8 N (2.9oz)*; 1,1 N (3.7oz)*; 2,25 N (8.1oz)

For Test Probes with Tip Diameter ≤ 1,00 mm (.039) the Spring Force is reached at the recommended Working Stroke of 6,4* mm (.252). Max. Stroke: 8,0 mm (.315).

* Working Stroke has been adjusted to 4 mm (see Technical Informations).

Electrical Data

Current Rating: max. 16 A, with Spring Force ≥ 1,5 N, and Plunger made of BeCu

R_i typical: ≤ 10 mΩ

* Spring force < 1,5 N are not recommended for high-current applications

Materials

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

Mounting Hole Size

for KS-112 xx M
in CEM 1 and FR 4: ø 1,99 mm (.0783)
for KS-112 xx M - R
in CEM 1 and FR 4: ø 2,00 - 2,02 mm (.0787 - .0795)

Operating Temperature

Standard: -100° - +200°C

Available Tip Styles

Material	Tip Style	Plating	Further Versions	
			ø	ø (inch)
3 02		A		
3 03		A		
3 05		A	0,65	(.026)
3 05		A		
3 05**		S		
3 06		A	1,30 1,60 2,50 3,50	(.051) (.063) (.098) (.138)
2 14		A		
3 17		A	2,00	(.079)
3 19		A		
3 53***		S		

** pressed-in Silver stud
 *** pressed-in Silver stud
 Tip Length 3,5 mm (.138),
 Installation Height plus 0,5 mm (.020)

Applications:

- High-current transfer during Functional Test
- Power-Supply Test
- Burn-In Test
- Contacting element in permanent use
- Usage with AC and DC

Note:

HSS-118 ... M will be screwed into KS-112 ... M using special tools (see Page 170/171).

Recommended Screw-in Torque:
 Min.: 3 Ncm / Max.: 5 Ncm

Ordering Example

Series	Tip Material 2 = Steel 3 = BeCu	Tip Style	Tip Diameter (1/100 mm)	Plating A = Gold S = Silver	Spring Force (dN)	Collar Height (mm)	Special Designation „M“
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Test Probe:

H S S 1 1 8 3 1 7 1 7 5 A 1 5 0 2 M

Recaptacle for HSS-118 ... M:

K S - 1 1 2 3 0 M / M-R / M-T K S - 1 1 2 4 6 M

Recaptacle for Leakage Test ****:

K S - 1 1 2 3 0 M