

HSS 118 M

Grid:
 $\approx 2,54 \text{ mm}$
 $\approx 100 \text{ Mil}$

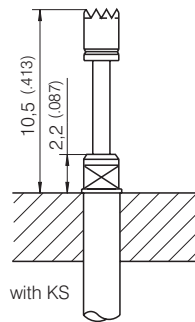
High-Current Probe up to 16 A
 Installation Height: 10,5 mm (.413)
 Recommended Stroke: 4,0 / 6,4 mm (.157 / .252)

Available Tip Styles				Special Versions	
Material	Tip Style	Standard Plating	Tip Diameter	Special Versions	
				Ø	Øinch
3	02	A	Ø 1,00 (.039)		
3	03	A	Ø 2,00 (.079)		
3	05	A	Ø 1,00 (.039)		
3	05**	S	Ø 2,00 (.079)		
3	06	A	Ø 2,00 (.079)	1,30 (.051) 1,60 (.063) 2,50 (.098) 3,50 (.138)	
2	14	A	Ø 1,30 (.051)		
3	17	A	Ø 1,75 (.069)	2,00 (.079)	
3	19	A	Ø 2,00 (.079)		
3	53***	S	Ø 2,00 (.079)		

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

Collar Height and Installation Height

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



Mechanical Data

Working Stroke: 4,0 mm (.157)
 Maximum Stroke: 5,3 mm (.209)

For Test Probes with Tip Diameter $\leq 1,0 \text{ mm}$ (.039) the Spring Force is reached at the recommended Working Stroke of 6,4 mm (.252). Maximum Stroke: 8,0 mm (.315).

Spring Force at Work. Stroke: 1,5 N (5.4 oz.)
 alternative: 0,8 N (2.9oz); 2,25 N (8.1oz)
 Test Point Size: $\geq \text{Ø } 1,1 \text{ mm}$ (.043)

Ordering Example:

Series	Tip Material 2 = Steel 3 = BeCu	Tip Style	Tip Diameter (1/100 mm)	Plating A = Gold	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

Receptacles for HSS-118 ... M:

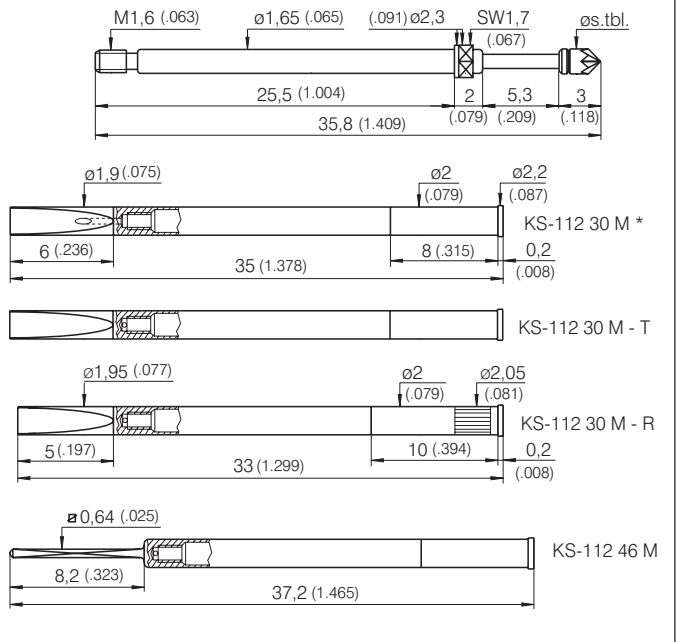
KS - 112 30 M - T KS - 112 46 M

Receptacles for Leakage Test *:

KS - 112 30 M

All specifications are subject to change without prior notification

Mounting and Functional Dimensions



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

Electrical Data

Current Rating: max. 16 A
 with Spring Force $\geq 1,5 \text{ N}$
 and Plunger made of BeCu
 R_i typical: $\leq 10 \text{ m}\Omega$

Operating Temperature

Standard: -40° up to +80° C
 with 1,5 N and 2,25 N Spring: -100° up to +200° C

Mounting Hole Size for KS - 112 xx M

in CEM 1 and FR 4: Ø 1,99 mm (.0783)

Mounting Hole Size for KS - 112 xx M - R

in CEM 1 and FR 4: Ø 2,00 - 2,02 mm (.0787 - .0795)

Materials

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

Note to HSS - 118 M and KS - 112 xx M

HSS-118 M are screwed into KS-112 xxx M using special tools
 > see page 103.

Recommended Screw-in Torque: Maximum 5 Ncm

Applications:

> see HSS - 150 (Page 92)