

High-Current Probe up to 24 A
 Installation Height: 10,5 - 18,5 mm (.413 - .728)
 Recommended Stroke: 4,0 mm (.157)

Grid:
 ≧ 4,00 mm
 ≧ 160 Mil

HSS 120 M

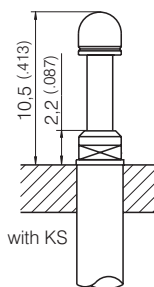
Available Tip Styles				Special Versions			
Material	Tip Style	Standard Plating		Ø	Øinch		
3	02			Ø 2,30 (.091)	A	4,00 (.157)	
3	03			Ø 3,00 (.118)	A		
3	05			Ø 2,30 (.091)	A	3,00 (.118)	
3	05 ****			Ø 3,00 (.118)	S		
3	06			Ø 2,30 (.091)	A	3,00 (.118)	4,00 (.157)
3	17			Ø 3,00 (.118)	A		
3	19			Ø 3,00 (.118)	A		
2	51*			Ø 2,30 (.091)	A		
3	53 ***			Ø 3,00 (.118)	S		
3	55*			Ø 3,00 (.118)	A		

* Tip length 5 mm (.197) - Installation Height with Collar Height 02: 12,5 mm (.492)
 **** pressed-in Silver stud
 *** pressed-in Silver stud, Tip length 3,5mm (.138) Installation Height plus 0,5mm (.020)

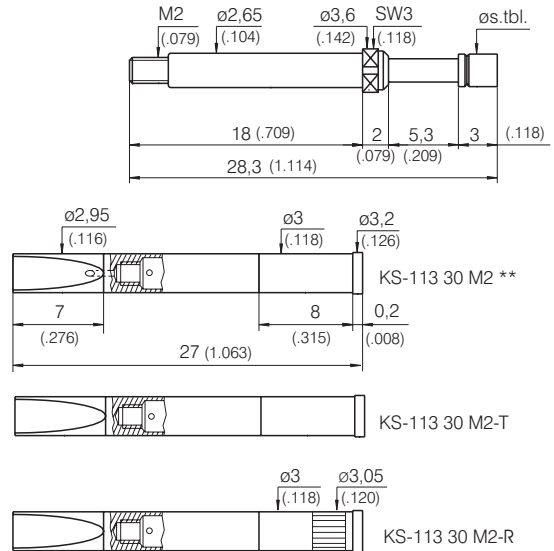
Collar Height and Installation Height

The Installation Height of the Tip (Dimension with Receptacle) is determined by the Collar Height. Test Probes can only be used with Receptacle.

Collar Height 02 M Installation Height 10,5 mm (.413)



Mounting and Functional Dimensions



** Axially positioned through-hole for leakage test. Attention: when not assembled correctly, then solder can flow inside the 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: 0,3 N (1.1oz); 0,6 N (2.2oz); 1,0 N (3.6oz); 2,25 N (8.1oz)

Electrical Data

Current Rating: max. 24 A
 with Spring Force ≥ 1,5N and Plunger made of BeCu
 R_i typical: < 10 mΩ

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 - 113 30 M2

in CEM 1 and FR 4: Ø 2,99 mm (.1177)

Mounting Hole Size for KS - 113 30 M2 - R

in CEM 1 and FR 4: Ø 3,00 - 3,02 mm (.1181 - .1189)

Materials

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

Applications

> see HSS - 150 (Page 92).

Note to HSS - 120 M and KS - 113 xx M
 Test Probes HSS-120 M are used with KS-113 xxx M. The Probes are screwed in with special Tools > see page 103.
 Recommended Screw-in Torque: Maximum 20 Ncm

Ordering Example:

Series	Tip Material	Tip Style	Tip Diameter	Plating	Spring Force	Collar Height	Special Designation
	2 = Steel 3 = BeCu		(¹ / ₁₀₀ mm)	A = Gold	(dN)	(mm)	

Test Probe:

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

Receptacles for HSS - 120 M:

KS - 113 30 M2 - T KS - 113 30 M2 - R

Receptacles for Leakage Test **:

KS - 113 30 M2

All specifications are subject to change without prior notification