

GKS 113 M

Screw-in Test Probes

Grid:

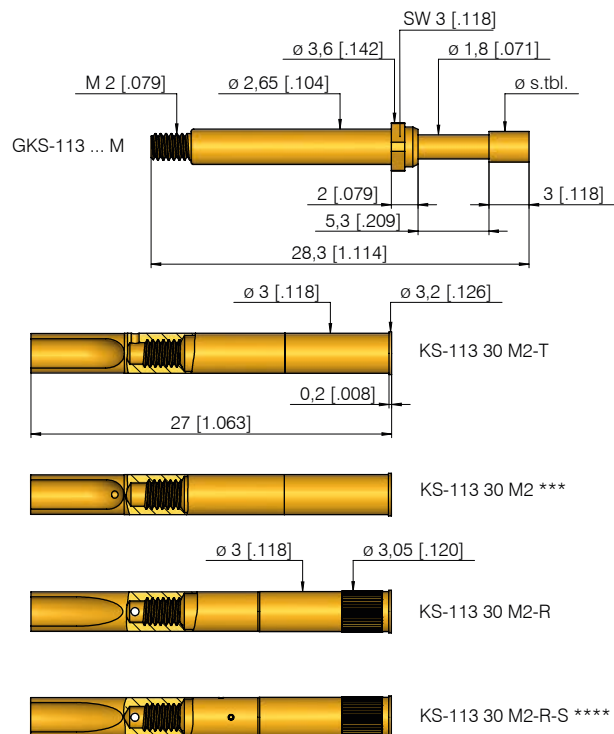
≥ 4,0 mm

≥ 160 Mil

Installation height with KS: 10,5 mm (.413)

Recommended stroke: 4,0 mm (.157)

Mounting and functional dimensions



*** axially positioned through-hole for leakage test.

Attention: when not assembled correctly, solder can flow inside the receptacle.

**** Additional crimping points for self locking

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)

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 (8.1oz); 3,0 N (10.8oz); 5,0 N (18.1oz)

Electrical data

Current rating: 5 - 8 A

R_i typical: < 30 mΩ

(** < 100 mΩ)

Operating temperature

Standard: -40° up to +80° C

**with spec. design. "MC":

-100° up to +200° C

(1,5 N; 2,25 N; 3,0 N)

Recommended screw-in torque:

Min.: 10 cNm / Max.: 20 cNm

Materials

Plunger: BeCu or Steel, gold-, rhodium or chemically nickel-plated

Barrel: Brass, gold-plated

Spring: Steel, gold-plated

or stainless steel** (MC)

Receptacle: Brass, gold-plated

Mounting hole size

for KS-113 30 M2 and KS-113 30 M2-T

in CEM1: ø 2,98 - 3,00 mm (.1173 - .1181)

in FR4: ø 2,99 - 3,01 mm (.1177 - .1185)

for KS-113 30 M2-R and KS-113 M2-R-S

in CEM1 and FR4: ø 3,00 - 3,02 mm

(.1181 - .1189)

Available tip styles

Material		Tip style	Plating	Further versions	
				ø	ø (inch)
2	01		R	ø 1,80 (.071)	
3	02		A	ø 1,40 (.055) ø 2,30 (.091)	0,80 (.031) 1,00 (.039) 1,80 (.071) 3,00 (.118) 4,00 (.157)
2	03		A	ø 3,00 (.118)	
3	03		A	ø 2,30 (.091)	4,00 R (.157)
2	04		R	ø 2,30 (.091)	1,80 A (.071) 3,00 (.118)
3	05		A	ø 2,30 (.091)	0,80 (.031) 1,40 (.055) 3,00 R (.118)
3	55		R	ø 3,00 (.118)	
		Tip 4 mm (.157) longer			
3	06		A	ø 3,00 (.118)	1,60 (.063) 2,30 (.091) 4,00 (.157) 8,00 (.315)
3	06		R	ø 2,30 (.091)	2,50 (.098) 3,00 (.118) 3,50 (.138) 4,00 (.157) 6,00 (.236)
2	07		A	ø 3,00 (.118)	
3	07		R	ø 4,20 (.165)	
3	12		A	ø 1,80 (.071)	
3	13		R	ø 1,80 (.071)	
2	14		R	ø 1,40 (.055)	
2	15*		A	ø 1,00 (.039)	
		Tip 2,5 mm (.098) longer			
2	17		R	ø 2,30 (.091)	1,80 (.071) 3,00 A (.118)
3	19		A	ø 4,00 (.157)	3,00 (.118)
3	72		A	ø 1,80 (.071)	
2	87		N	ø 2,60 (.102)	4,00 (.157)
2	88		A	ø 2,30 (.091)	

* pressed-in steel tip in base plunger made of brass

Ordering example

	Series	Tip material 2 = Steel 3 = BeCu	Tip style	Tip diameter (1/100 mm)	Plating A = Gold N = Nickel R = Rhodium	Spring force (dN)	Collar height (mm)	Special designation alternative "MC"
Test probe:	G K S	1 1 3	3	0 6	2 3 0	R	1 5	0 2 M
Receptacles for GKS-113 ... M:	K S - 1 1 3 3 0 M2-R				K S - 1 1 3 3 0 M2-T			
Receptacles for leakage test***:	K S - 1 1 3 3 0 M2							