

GKS 112 M

Screw-in Test Probe

Grid:

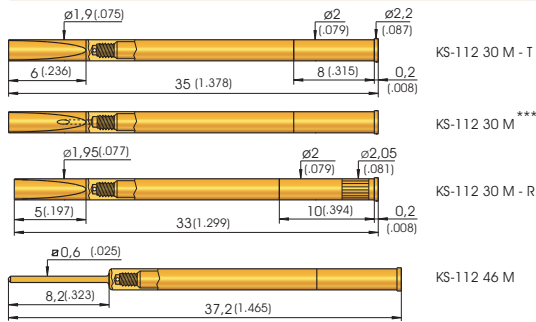
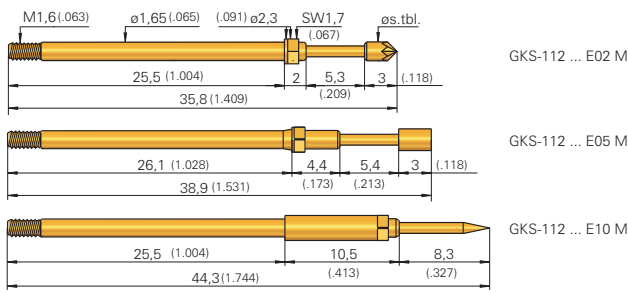
≥ 2,54 mm

≥ 100 Mil

Installation Height: 10,5/13,6/19,0 mm (.413/535/.748)

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

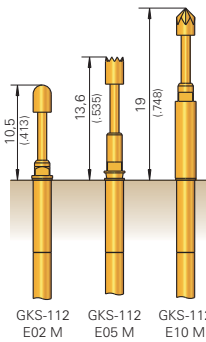
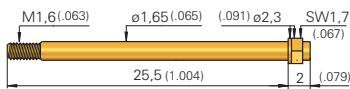
Mounting and Functional Dimensions



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

Plug VS-112 M is used instead of a Test Probe and prevents in case of maintenance, that not required Receptacles will accidentally be used.

VS-112 M



Collar Height and Installation Height

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

Collar Height	Installation Height
02	10,5 mm (.413)
05	13,6 mm (.535)
10	19,0 mm (.748)

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: 0,6 (2.1oz); 0,8 (2.9oz); 2,25 (8.1oz); 3,0 (10.8oz); 5,0 N (18.1oz)

By Test Probes with Tip Dia ≤ 1,00 mm (.039), the Spring Force is reached at the recommended Working Stroke 6,4* mm (.252) (max. Stroke: 8,0 mm (.315)). Exception: 5,0 N (18.1oz), Spring: max. Stroke is always 5,3 mm (.209).

Electrical Data

Current Rating: 5 - 8 A
R_i typical: < 20 mΩ
 (with Spec. Design. "MC" > 100 mΩ)

Materials

Plunger: Steel or BeCu, 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-112 xx M and KS-112 xx M-T in CEM 1 and FR 4: ∅ 1,99 mm (.0783)
for KS-112 xx M - R in CEM 1 and FR 4: ∅ 2,00 - 2,02 mm (.0787 - .0795)

Operating Temperature

Standard: -40° up to +80° C
with Spec. Design. „MC“: -100° up to +200° C
 (0,8; 1,5; 2,25; 3,0 N)

Available Tip Styles

Material	Tip Style	Plating	Further Versions	
			∅	∅ (inch)
2	01	R	∅ 1,00 (.039)	0,80 (.031)
3	02	A	∅ 0,80 (.031)	
3	02	A	∅ 2,00 (.079)	1,00 (.039) 1,50 (.059)
3	03	A	∅ 2,00 (.079)	1,40 (.055) 1,80 (.071)
2	04	R	∅ 2,00 (.079)	1,30 (.051)
3	05**	A	∅ 0,63 (.025)	
3	05	A	∅ 0,64 (.025)	0,80 (.031)
3	05	A	∅ 2,00 (.079)	1,00 (.039) 1,40 (.055) 2,30 (.091)
0	06*	A	∅ 2,30 (.091)	
3	06	A	∅ 2,00 (.079)	
3	06	R	∅ 1,30 (.051)	1,50 (.059) 1,80 (.071) 2,50 (.098)
2	07	R	∅ 2,00 (.079)	1,30 A (.051)
2	09***	N	∅ 0,60 (.024)	
2	14	A	∅ 1,30 (.051)	1,30 R (.051)
2	17	N	∅ 1,75 (.069)	2,00 R (.079)
3	19	A	∅ 1,80 (.071)	NEW

* also available as Tip Style 0 02 and 0 03
 Installation Height plus 0,8 mm (.031)

** Plunger with defined wobble, Spec. Designation ... MT

*** pressed-in Steel point in Base Plunger made of Brass

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

Note:

GKS-112 ... 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	Tip Style	Tip Diameter (1/100 mm)	Plating	Spring Force (dN)	Collar Height (mm)	Special Designation alternative „MC“, „MT“
G K S	1 = Delrin 2 = Steel 3 = BeCu	1 1 2	2	A = Gold N = Nickel R = Rhodium	0 4	1 3 0	R
						1 5	0 2
							M

Test Probe: G K S 1 1 2 2 0 4 1 3 0 R 1 5 0 2 M
 Receptacle for GKS-112 ... M: see above
 Plug: V S 1 1 2 M