

GKS 112 M

Screw-in Test Probe

Grid:

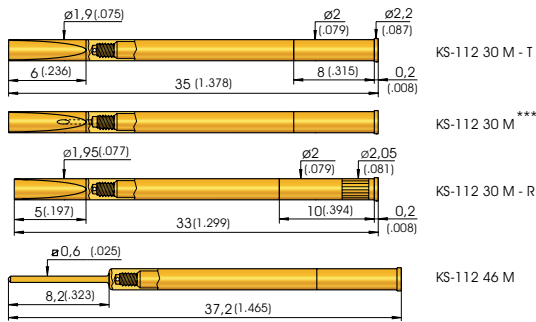
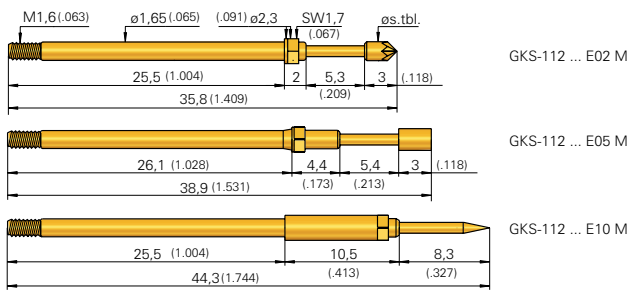
≥ 2,54 mm

≥ 100 Mil

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

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

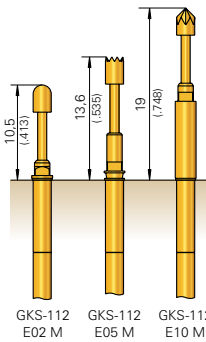
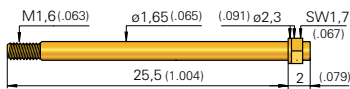
Mounting and Functional Dimensions



**** 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)

Test Probes with Tip Diameter ≤ 1,0 mm (.039) have a maximum Working Stroke of 8,0 mm (.315)
 Exception: 5,0 N-Spring (18.1oz): 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: 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: -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	
			ø	ø (inch)
2	01	R A	ø 1,00 (.039)	0,80 (.031)
3	02	A	ø 0,80 (.031)	
3	02	A	ø 2,00 (.079)	1,00 (.039) 1,50 (.059)
3	03	A	ø 2,00 (.079)	1,40 (.055) 1,80 (.071)
2	04	R	ø 2,00 (.079)	1,30 (.051)
3	05**	A	ø 0,63 (.025)	
3	05	A	ø 0,64 (.025)	0,80 (.031)
3	05	A	ø 2,00 (.079)	1,00 (.039) 1,40 (.055) 2,30 (.091)
0	06*	A	ø 2,30 (.091)	
3	06	A	ø 2,00 (.079)	
3	06	R	ø 1,30 (.051)	1,50 (.059) 1,80 (.071) 2,50 (.098)
2	07	R A	ø 2,00 (.079)	1,30 A (.051)
2	09***	N	ø 0,60 (.024)	
2	14	A	ø 1,30 (.051)	1,30 R (.051)
2	17	N	ø 1,75 (.069)	2,00 R (.079)
3	19	A	ø 1,80 (.071)	2,00 A (.079)

* 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

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			A = Gold N = Nickel R = Rhodium			
1 1 2							
2 0 4							
1 3 0							
R							
1 5							
0 2							
M							

Test Probe:

Receptacle for GKS-112 ... M:

Plug: