Flexible Pitch GND Fixture Clamps GF-A

Advanced TLP/HMM/HBM Solutions

1 Features

- Compatible with GGB Picoprobe model 10 replacement probe tips
- <1 ns rise time (custom selectable GND wire length 5…15 mm)
- Gold-coated spring-steel clamp with micro-machined groove for locking of the clamps on the probe tip
- High conductivity and low inductance copper HF litz wire with 200 x Ø 0.02 mm strands
- Easy to use clamping
- Tungsten carbide probe needle

2 Description

The GF-A is used for flexible pitch waver- or package-level probing using GGB’s picoprobe model 10 probetips. The completely new redesign of the GF-A, is targeting highest performance (fast rise times), reliability and usability. If very short GND wire length of 5 mm is selected, also VF-TLP with 200 ps rise time is possible. Fig. 1 shows the packing of a GF-A set. Fig. 2 to Fig. 3 show the typical application. Additional two micropositioners are required for the GND needles. For further information about the application of the GF-A please refer to the HPPI application note AN-010. Recommendation for tungsten needle replacement: Quater, 0.508 mm (20 mil), part no.: H-20242 or optional from American Probe Technologies Inc., probe model # 72TC-D3/75 x 1", tungsten carbide probes with 1" length, 15° taper and 7.5 µm tip radius.

3 Ordering Information

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<th>Pos.</th>
<th>Description</th>
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<td>GF-A /</td>
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<td>GF-A /</td>
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Figure 2: GF-A mounted on a picoprobe model 10 probetip. L is available in the range from 5, 10 to 15 mm.

Figure 3: Typical flexible pitch application

Figure 4: Unique groove locking in the brackets of left- and right sided clamp for solid electrical contact, precise locking and easy use. Gold coating for high contact reliability. High conductivity and low inductance copper HF litz wire with 200 x Ø 0.02 mm strands.
Assembly Instructions

Please take care that the clamps are mounted on the GGB Picoprobe Model 10 replacement probetips in the right direction. The GF-A kit consists of a left-sided and right-sided clamp, as shown in Fig. 5. On the left-sided clamp the litz wire is soldered on the bottom side of the clamp. On the right-sided clamp the litz wire is soldered on the top side of the clamp.

It is important to distinguish between left-sided and right-sided clamp and probe tips in order to achieve tight locking of the clamps on the probe tip. The clamps can be easily locked and released with a tweezer or even by hand. High contact and clamping reliability is ensured by the micro-machined locking groove in the probe tip clamp brackets.

General

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