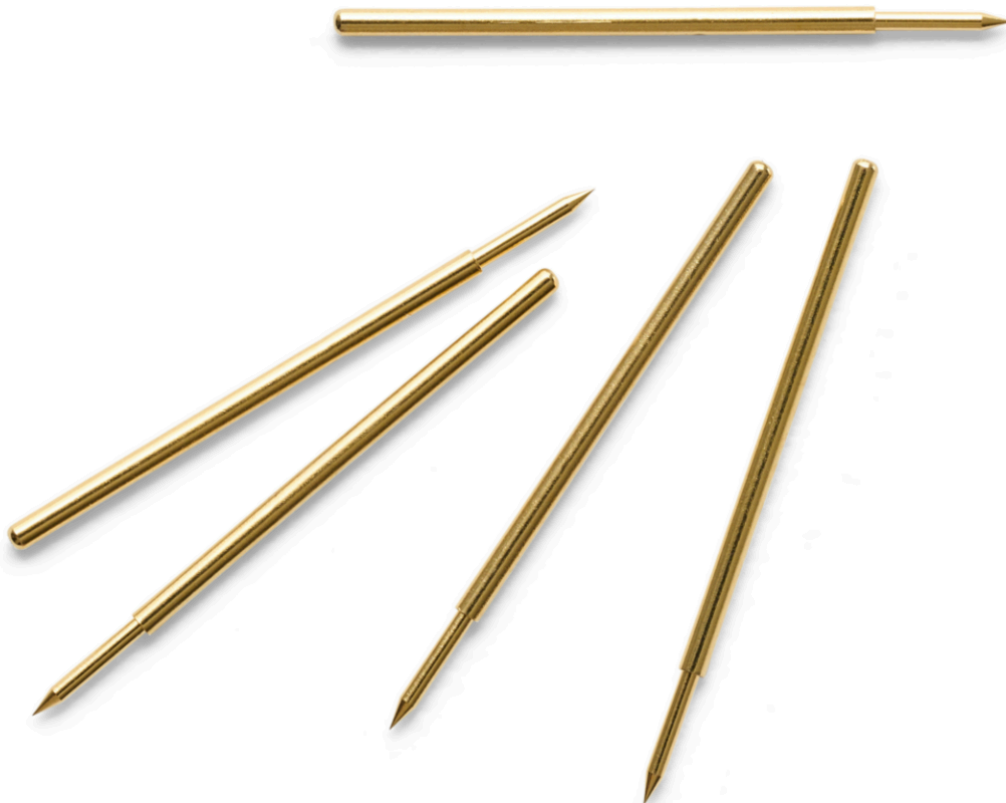


Datasheet

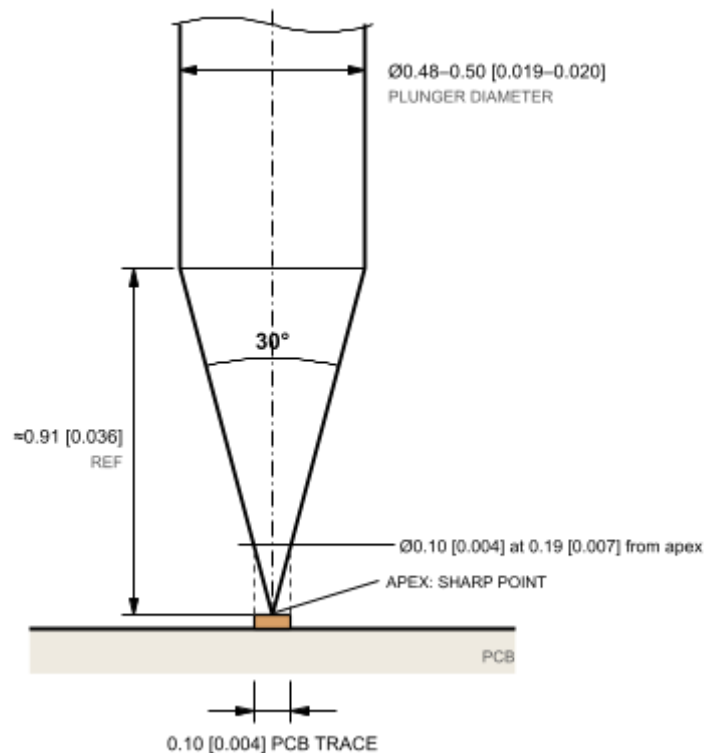
PCBITE-7002 - Probe tip needle

Gold-plated spring-loaded replacement needle for Sensepeek PCBite probes



Tip geometry

The plunger diameter is 0.48–0.50 mm (0.019–0.020 in), but the contact point is a sharp 30° cone. 0.19 mm (0.007 in) from the apex the cone is only 0.10 mm (0.004 in) wide, so the needle can contact PCB traces and pads down to 0.10 mm (0.004 in).



Enlarged view, scale 50:1 at 100 % print size. Dimensions in mm [inch]. REF = reference value.

Specifications

Article number	PCBITE-7002
Article name	Probe tip needle
Product type	Spring-loaded test probe needle
Minimum pitch, angled probes	0.3 mm (0.012 in) tip-to-tip
Minimum pitch, parallel probes	1 mm (0.039 in) center-to-center
Compatible probe models	SQ10, SQ100, SQ200, SQ350, SQ500, SP10, SP100 and SP200
Maximum continuous current at stated voltage	2 A at ± 60 V DC, 30 V AC RMS or ± 42.4 V pk max.
Total length, uncompressed	16.35-16.55 mm (0.644-0.652 in)
Full stroke	2.50-2.65 mm (0.098-0.104 in)
Mechanical life	30,000 cycles
Spring force	Approx. 40 g (0.39 N)
Tip style	30° sharp cone, pointed tip
Plunger diameter	0.48-0.50 mm (0.019-0.020 in)
Plunger / tip	Beryllium copper or hardened SK4 steel, hard gold-plated over nickel
Barrel	Phosphor bronze, gold-plated over nickel
Spring	Music wire or stainless steel, gold-plated
Compatible receptacle dimensions	Total length: 17.5 mm (0.689 in) Body diameter: 0.86 mm (0.034 in) Collar diameter: 0.95-0.98 mm (0.037-0.039 in) Collar height: 2.5 mm (0.098 in) Mounting hole: 0.90 mm (0.035 in) Termination: solder cup / crimp
Compatible receptacle tube	Phosphor bronze, gold-plated over nickel
Included	5x probe tip needle
RoHS and REACH compliant	Yes