

JANDEL Engineering Ltd Miniature Cartridge four point probe head



JANDEL ENGINEERING LTD. manufactures the miniature cartridge probe to be compatible with Kokusai probing equipment. It is 0.9" x 1.1" high (23.6mm x 28mm high) and weighs 28g. There is a positioning key and a retaining screw for either 4BA or M3.

The Jandel Miniature Cartridge four point probe head is available with tip spacing from 1.0mm up to 1.591mm.

Jandel four point probe heads are built with upper and lower jewel bearings and are built to 1% mechanical accuracy. Final testing involves the use of calibrated measurement instruments (electronic force gauge, video inspection system, interferometer) to verify tip radii, tip spacing, spring load, and tip planarity.

Probes are built to high mechanical accuracy standards. Specifications for radii, spacing, and planarity are verified by video inspection system and/or interferometer. Loads are verified by electronic force gauge. Needles have upper and lower jeweled bearings.

PROBE SPACING	40-50 mils by 5 mil increments: 1.00 mm 1/2(pi) cm (1.591 mm or about 62.6 mils)
TOLERANCE	+/-0.01 mm
ARRANGEMENT	Linear or Square array
NEEDLES	Solid Tungsten carbide Ø 0.40 mm (Ø 0.30 mm for close-spacing) 45 degree included angle, phosphor-bronze connecting ligament
OTHER MATERIALS	50% osmium alloy tips available
RADII	12.5 µm min. to 500 µm max. polished with 2 µm diamond
RETRACTION TO INSULATING PAD	0.5 mm
PLANARITY	+/- 0.025 mm or better
LOADS	10 min to 250 max grams per needle. Not user adjustable
LEADS	4-way cable Teflon insulated
ELECTRICAL LEAKAGE	10 ¹³ ohms resistance between needles at 100 volts