

JANDEL Engineering Ltd

Miniature Cartridge four point probe head with 6-32 tapped holes

JANDEL ENGINEERING LTD. manufactures the miniature cartridge probe with 6-32 tapped holes to be compatible with AIT, Chang Min Tech, Lucas Labs, Magne-Tron, and Signatone probing equipment. It is 0.9" x 1.1" high (23.6mm x 28mm high) and weighs 28g. There are two sets of tapped 6-32 holes for mounting the probe.



Probes are built to a high level of mechanical accuracy. Specifications for tip radii, spacing, and planarity are verified by optical interferometer and video inspection system. Spring loads are set and 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