

# JANDEL

## CT6 Four Point Probe Head for use With KLA-Tencor / Prometrix Systems

**JANDEL ENGINEERING LTD** is an authorized manufacturer of four point probes for KLA-Tencor systems and systems formerly sold under the Prometrix brand name. All CT6 probes have a 1" diameter body, are 1.6" high (25.4mm x 41mm high), and weigh 55g. All Jandel probes including the CT6 models are built to a high level of mechanical accuracy. Specifications for radii, spacing, and planarity are verified by video inspection system and/or interferometer. Loads are verified by electronic force gauge. Each needle is fitted with both an upper and lower jeweled needle guide. Additional information about probe quality and specifications can be found here:

[http://www.fourpointprobes.com/probe\\_app\\_notes.pdf](http://www.fourpointprobes.com/probe_app_notes.pdf)

### KLA-Tencor/Prometrix Probe Types

Probe Type	Tip Radii	Spring Load (grams/tip)	Material	Tip Spacing
A	1.6 mils	100g	TC	40 mils
B	4.0 mils	100g	TC	40 mils
C	8.0 mils	100g	TC	40 mils
D	20.0 mils	100g	TC	40 mils
E	1.6 mils	200g	TC	62.5 mils
F	1.6 mils	100g	TC	25 mils
FC	1.6 mils	100g	TC	20 mils
G	4.0 mils	100g	TC	25 mils
H	8.0 mils	100g	TC	25 mils
I	20.0 mils	100g	TC	25 mils



### Part Numbers for Jandel Probes for KLA-Tencor / Prometrix Systems

Part Number	Description	Probe "Type"
CT6-40-100-TC-1.6/PRO	Jandel Four-Point Probe Cartridge with 6-way connector for use with KLA/Tencor - Prometrix - Type "A" probe - 40 mil tip spacing - 100 gram load per tip	Type "A" probe

- Tungsten Carbide Tips
- 1.6 mil tip radius

continued

Part Number	Description	Probe "Type"
CT6-40-100-TC-4.0/PRO	Jandel Four-Point Probe Cartridge with 6-way connector for use with KLA/Tencor - Prometrix <ul style="list-style-type: none"> <li>- Type "B" probe</li> <li>- 40 mil tip spacing</li> <li>- 100 gram load per tip</li> <li>- Tungsten Carbide Tips</li> <li>- 4.0 mil tip radius</li> </ul>	Type "B" probe
CT6-40-100-TC-8.0/PRO	Jandel Four-Point Probe Cartridge with 6-way connector for use with KLA/Tencor - Prometrix <ul style="list-style-type: none"> <li>- Type "C" probe</li> <li>- 40 mil tip spacing</li> <li>- 100 gram load per tip</li> <li>- Tungsten Carbide Tips</li> <li>- 8.0 mil tip radius</li> </ul>	Type "C" probe
CT6-40-100-TC-20.0/PRO	Jandel Four-Point Probe Cartridge with 6-way connector for use with KLA/Tencor - Prometrix <ul style="list-style-type: none"> <li>- Type "D" probe</li> <li>- 40 mil tip spacing</li> <li>- 100 gram load per tip</li> <li>- Tungsten Carbide Tips</li> <li>- 20.0 mil tip radius</li> </ul>	Type "D" probe
CT6-62.5-200-TC-1.6/PRO	Jandel Four-Point Probe Cartridge with 6-way connector for use with KLA/Tencor - Prometrix <ul style="list-style-type: none"> <li>- Type "E" probe</li> <li>- 62.5 mil tip spacing</li> <li>- 200 gram load per tip</li> <li>- Tungsten Carbide Tips</li> <li>- 1.6 mil tip radius</li> </ul>	Type "E" probe
CT6-25-100-TC-1.6/PRO	Jandel Four-Point Probe Cartridge with 6-way connector for use with KLA/Tencor - Prometrix <ul style="list-style-type: none"> <li>- Type "F" probe</li> <li>- 25 mil tip spacing</li> <li>- 100 gram load per tip</li> <li>- Tungsten Carbide Tips</li> <li>- 1.6 mil tip radius</li> </ul>	Type "F" probe

continued

<u>Part Number</u>	<u>Description</u>	<u>Probe "Type"</u>
CT6-20-100-TC-1.6/PRO	Jandel Four-Point Probe Cartridge with 6-way connector for use with KLA/Tencor - Prometrix - Type "FC" probe - 20 mil tip spacing - 100 gram load per tip - Tungsten Carbide Tips - 1.6 mil tip radius	Type "FC" probe
CT6-25-100-TC-4.0/PRO	Jandel Four-Point Probe Cartridge with 6-way connector for use with KLA/Tencor - Prometrix - Type "G" probe - 25 mil tip spacing - 100 gram load per tip - Tungsten Carbide Tips - 4.0 mil tip radius	Type "G" probe
CT6-25-100-TC-8.0/PRO	Jandel Four-Point Probe Cartridge with 6-way connector for use with KLA/Tencor - Prometrix - Type "H" probe - 25 mil tip spacing - 100 gram load per tip - Tungsten Carbide Tips - 8 mil tip radius	Type "H" probe
CT6-25-100-TC-20.0/PRO	Jandel Four-Point Probe Cartridge with 6-way connector for use with KLA-Tencor/Prometrix - Type "I" probe - 25 mil tip spacing - 100 gram load per tip - Tungsten Carbide Tips - 20.0 mil tip radius	Type "I" probe

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**Bridge Technology is an  
authorized representative of  
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**Notes:**  
Needle projection for KLA-Tencor/Prometrix type probes is 0.25mm.

Probes for KLA-Tencor/Prometrix are not shipped pre-conditioned. Jandel maintains that probe tip conditioning is best performed on the system that it is to be used on.

Jandel can build KLA-Tencor/Prometrix type probes in a "vertical" version with the linear array perpendicular to the usual alignment. KLA-Tencor/Prometrix type probes are available in a square array with the tips spaced as close as 0.635 mm (25 mils) apart (however, not available with 0.5mm spacing in the square array). The square array and vertical array options do not affect the pricing of the probe. Probes with the square array gives half the signal voltage compared with linear array probes. Upon request, Jandel can supply KLA/Tencor (Prometrix) probes with the close needle spacing of 20 mils (0.5 mm), i.e., the [Close-Spacing Probe](#).