HPL - TEST PROBES
Test Probes with High Pre-Loaded Spring Force
To ensure reliable contacting of PCBs which are contaminated with residues and or oxidised from the soldering process, a wide range of ICT Test Probes is available from PTR.

These series for 50, 75 and 100 mil spacing are available with different aggressive tip styles. The variety of possible contact pressures to maximum of 5N meets the most demanding requirements.

We are amending our product range with our new HPL (high pre-loaded test probes), which offer better penetration of contaminants and enable better signal transfer even in Lead-Free applications.

This HPL-Series will not increase stresses on the UUT/Test Fixture and the same probe travel is maintained as with the standard series.

PTR’s HPL test probes offer special advantages when used as test contacts for lead-free PCBs. Despite the lack of solder on the test points, the new test probes provide secure contacting and satisfy all the test requirements in this sector.
### Mechanical Data

**Series 1008/E**
- Center: 1.27 mm/50 mil
- Full Travel: 6.40 mm
- Working Travel: 4.30 mm
- Pre-loaded Spring Force: 1.4 N
- Working Travel: 2.0 N

**Series 1012/E**
- Center: 1.91 mm/75 mil
- Full Travel: 6.40 mm
- Working Travel: 4.30 mm
- Pre-loaded Spring Force: 1.2 N / 1.6 N
- Spring Force at Working Travel: 2.0 N / 2.8 N

**Series 1025/E**
- Center: 2.54 mm/100 mil
- Full Travel: 6.40 mm
- Working Travel: 4.30 mm
- Pre-loaded Spring Force: 1.3 N / 2.0 N
- Spring Force at Working Travel: 2.0 N / 3.0 N

### Electrical Data

**Series 1008/E**
- Max. Current Rating: 2.0 - 3.0 A
- Typical Continuity Resistance: ≤ 20 mOhm

**Series 1012/E**
- Max. Current Rating: 3.0 - 4.0 A
- Typical Continuity Resistance: ≤ 20 mOhm

**Series 1025/E**
- Max. Current Rating: 5.0 - 8.0 A
- Typical Continuity Resistance: ≤ 20 mOhm

### Tip Style

V, V1, V4, VL2:
- V1: 0.50 Au, 0.50 Au
- V4: 0.50 Au, 0.50 Au
- VL2: 0.64 Au

V1, V5, VL2:
- V1: 0.64 Au, 0.64 Au
- V5: 0.80 Au, 0.64 Au
- VL2: 0.64 Au

V1, V3, VL2:
- V1: 0.90 Au/Ni, 1.30 Au
- V3: 0.90 Au, 0.90 Au
- VL2: 0.90 Au, 0.90 Au

### How To Order - H △ Series With High Pre-loaded Spring Force

**1008/E** - V - 2.0 NH - Au - 0.5

**1012/E** - V - 2.8 NH - Au - 0.64

**1025/E** - V - 3.0 NH - Au - 0.9

### Spring Force Charts: Standard Spring To HPL-Series

![Force-Travel-Graph Series 1008/E](image)

![Force-Travel-Graph Series 1012/E](image)

![Force-Travel-Graph Series 1025/E](image)
PTR Offers a Wide Range of Test Probes:

- Test probes for Cable Testing
- In-Circuit-Test Test Probes
- High-Current Test Probes
- High-Frequency Test Probes
- Pneumatic Test Probes