



HPL - TEST PROBES

Test Probes with High Pre-Loaded Spring Force



HPL - TEST PROBES



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.



lead-free

SERIES 1008/E

Mechanical Data	
Center	1.27 mm/50 mil
Full Travel	6.40 mm
Working Travel	4.30 mm
Pre-loaded Spring Force	1.4 N
Spring Force at	
Working Travel	2.0 N

Electrical Data	
Max. Current Rating	2.0 - 3.0 A
Typical Continuity	
Resistance	≤ 20 mOhm

SERIES 1012/E

Mechanical Data	
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





Electrical Data	
Max. Current Rating	3.0 - 4.0 A
Typical Continuity	
Resistance	≤ 20 mOhm



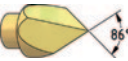


SERIES 1025/E







Mechanical Data	
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	
Max. Current Rating	5.0 - 8.0 A
Typical Continuity	
Resistance	≤ 20 mOhm

TIP STYLE

	
V	V1
0.50 Au	0.50 Au
	
V4	VL2
0.50 Au	0.50 Au

	
V	V1
0.64 Au	0.64 Au
	
V1	V5
0.80 Au	0.64 Au
	
VL2	
0.64 Au	

	
V	V
0.90 Au/Ni	1.30 Au
	
V1	V3
0.90 Au	0.90 Au
	
VL2	V5
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
1		2		3 4		5		6

1. Series 2. Tip Style 3. Spring Force 4. High Pre-loaded Spring Force 5. Tip Plating 6. Tip Diameter

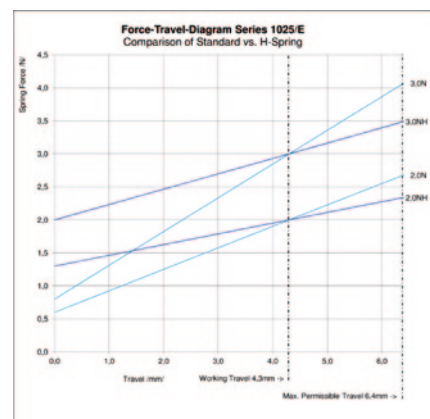
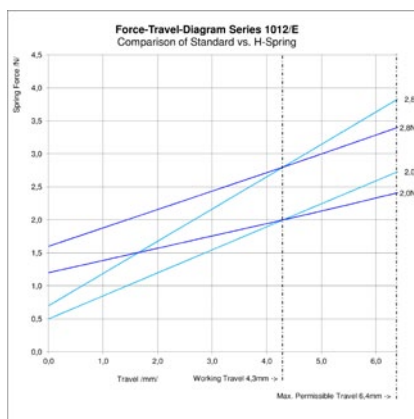
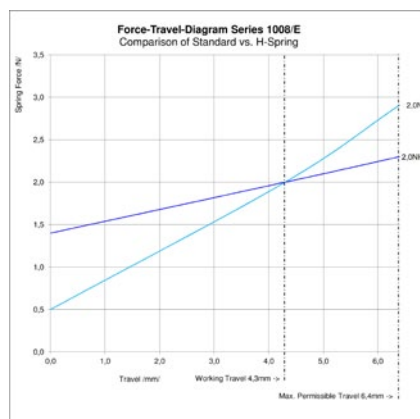
1012/E	-	V	-	2.8 NH	-	Au	-	0.64
1		2		3 4		5		6

1. Series 2. Tip Style 3. Spring Force 4. High Pre-loaded Spring Force 5. Tip Plating 6. Tip Diameter

1025/E	-	V	-	3.0 NH	-	Au	-	0.9
1		2		3 4		5		6

1. Series 2. Tip Style 3. Spring Force 4. High Pre-loaded Spring Force 5. Tip Plating 6. Tip Diameter

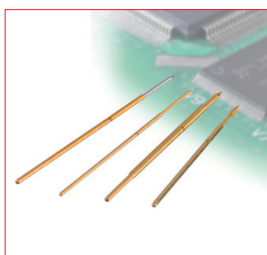
SPRING FORCE CHARTS: STANDARD SPRING TO HPL-SERIES





PTR Messtechnik GmbH
Gewerbehof 38
59368 Werne (Germany)
Phone: +49 (0) 23 89/7988-0
Fax: +49 (0) 23 89/798888
info@ptr.eu · www.ptr.eu

Represented worldwide in more than 50 countries.



**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