

M-pin Probe

High performance probe for high current, high frequency, and high-temp circumstance.
For burn-in socket, test socket, and board to board.







Specification

Temperature range: -40°C ~ +150°C
Contact resistance: 50mΩ max

Material

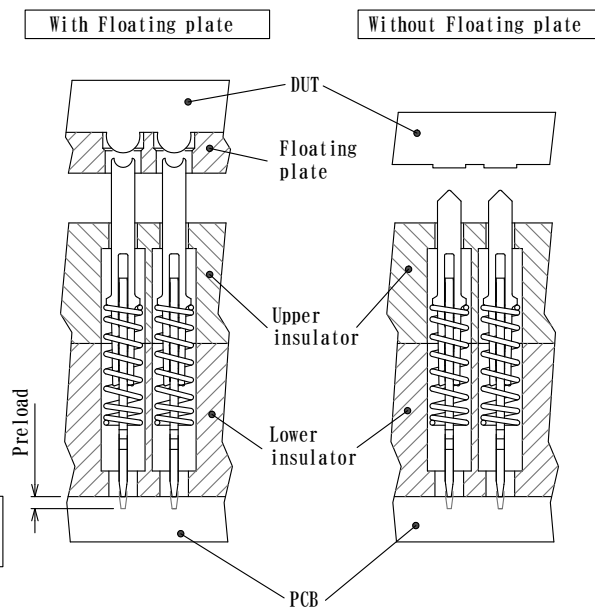
Plunger: BeCu, Gold over Ni plated
Spring : Stainless Steel, Gold over Ni plated

Head style	Target objects
point 	Pad Land (LGA) Pin Lead (QFP, SOP)
Full radius 	Pad Land (LGA)
U shape 	Pad Land (LGA) Pin Lead (QFP, SOP) BGA CSP
V shape 	Pad Land (LGA) Pin Lead (QFP, SOP) BGA CSP

reference)

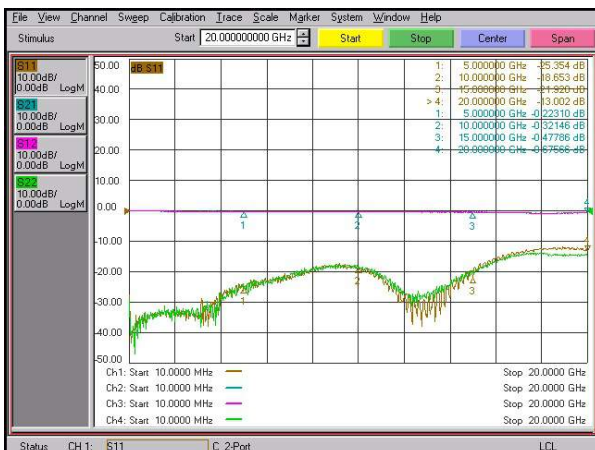
Component drawing

How to use



High frequency characteristic

Return loss ————
Insertion loss ————
Test sample P/N MD59L301R-029N
pitch:0.8mm

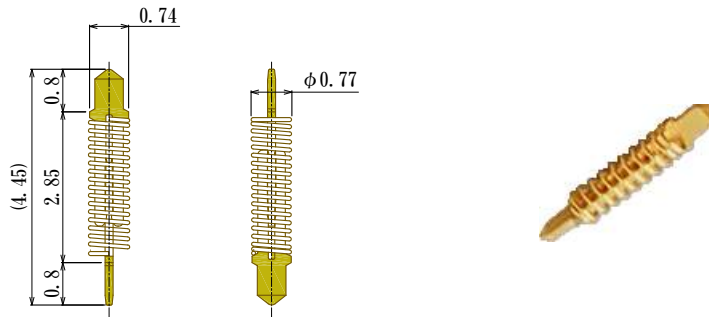


-0.68dB:20GHz
-13dB:20GHz

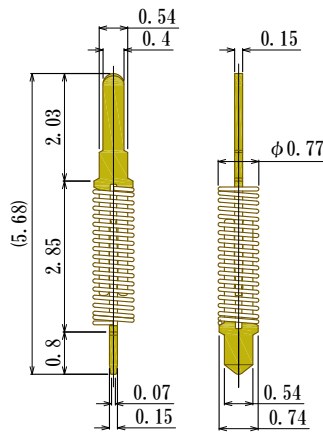
M-pin probe
Our product lineup utilizing M-pin probe

M-pin Probe Assy, for Board to Board ——— Please refer to page 3C1.

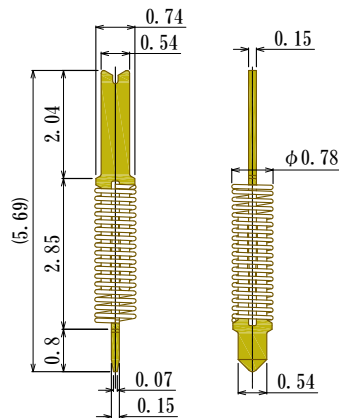
M-pin Probe Outer Dia. $\phi 0.77 \sim 0.78\text{mm} / 0.030 \sim 0.031"$
1.0mm pitch, etc.



Part No.	Preload	Recommended travel	Current rating
MD77L445C-019N	0.1N (10.1gf)	0.166N (17.0gf) at 0.5mm travel	4A
MD77L445C-034N	0.18N (18.1gf)	0.295N (30.1gf) at 0.5mm travel	4A

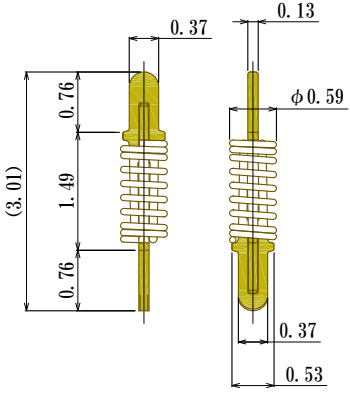
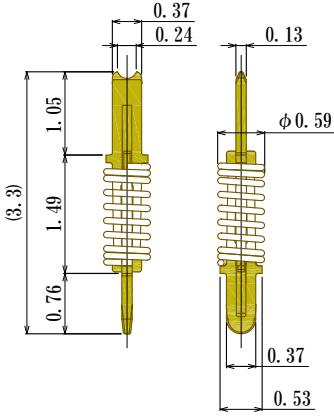
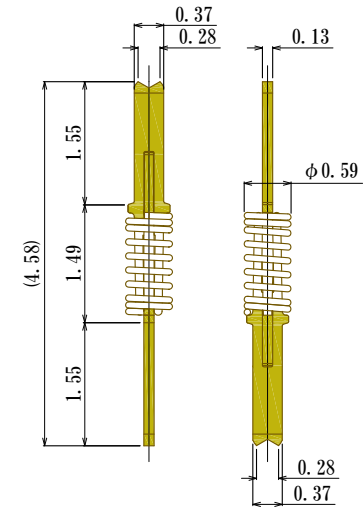


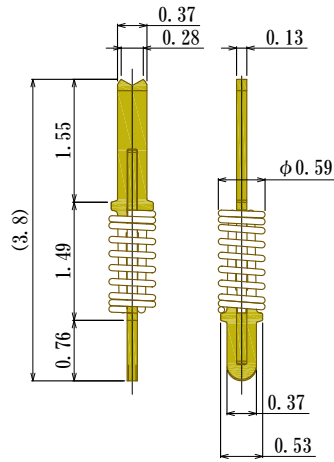
Part No.	Preload	Recommended travel	Current rating
MD77L568R-019N	0.1N (10.1gf)	0.166N (17.0gf) at 0.5mm travel	4A
MD77L568R-034N	0.18N (18.1gf)	0.295N (30.1gf) at 0.5mm travel	4A



Part No.	Preload	Recommended travel	Current rating
MD78L569V-019N	0.1N (10.1gf)	0.166N (17.0gf) at 0.5mm travel	4A
MD78L569V-034N	0.18N (18.1gf)	0.295N (30.1gf) at 0.5mm travel	4A

M-pin Probe Outer Dia. $\phi 0.59\text{mm}/0.023''$
0.8mm pitch, etc.

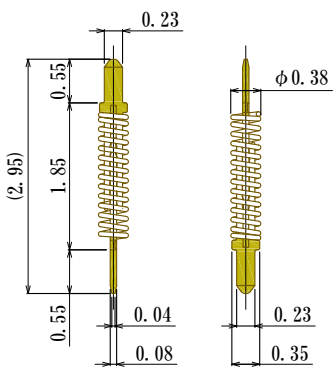
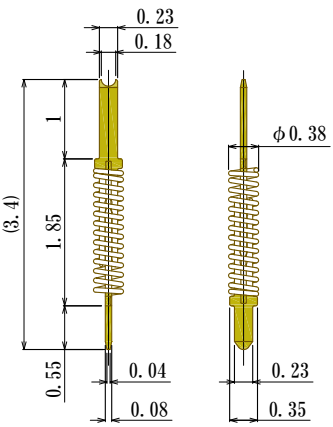
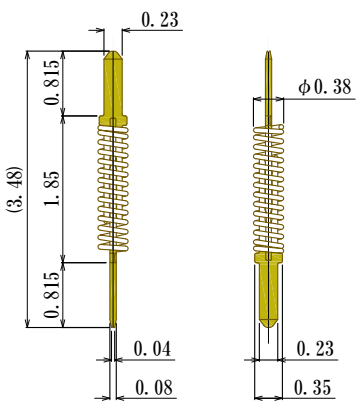
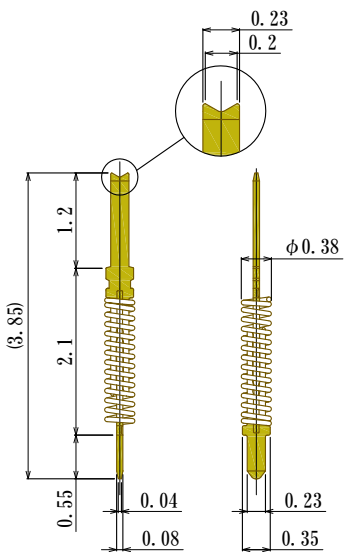
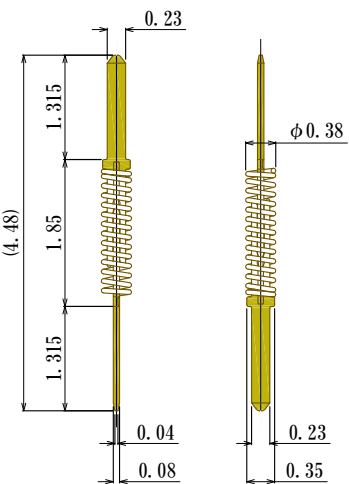
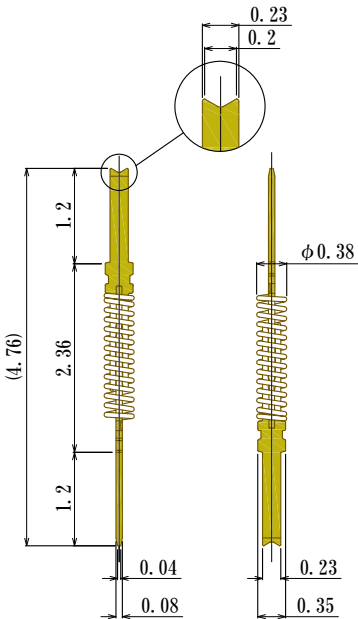
 <p>Preload 0.09N (9.4gf) 0.254N (25.9gf) at 0.4mm travel Current rating 3A</p> <p>MD59L301R-029N</p> <p>0.8mm pitch, etc.</p>	 <p>Preload 0.09N (9.4gf) 0.254N (25.9gf) at 0.4mm travel Current rating 3A</p> <p>MD59L33U-029N</p> <p>0.8mm pitch, etc.</p> <p>*Limited quantity</p>	 <p>Preload 0.09N (9.4gf) 0.254N (25.9gf) at 0.4mm travel Current rating 3A</p> <p>MD59L458V-029N</p> <p>0.8mm pitch, etc.</p>
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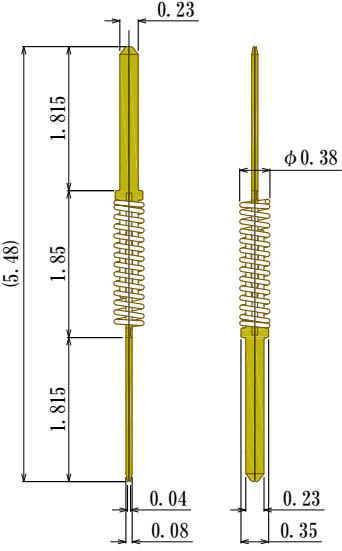
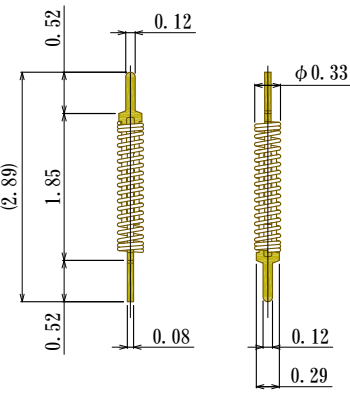
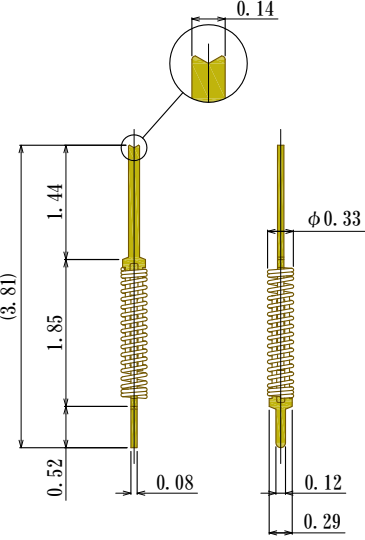
Part No.	Preload	Recommended travel	Current rating
MD59L38V-015N	0.06N (5.7gf)	0.151N (15.4gf) at 0.4mm travel	3A
MD59L38V-029N	0.09N (9.4gf)	0.254N (25.9gf) at 0.4mm travel	3A

0.8mm pitch, etc.

M-pin Probe Outer Dia. $\phi 0.38\text{mm}/0.015''$
0.5mm pitch, etc.

 <p>Preload 0.21N (21.2gf) 0.281N (28.6gf) at 0.33mm travel Current rating 2.9A</p> <p>MD38L295C-030N 0.5mm pitch, etc.</p>	 <p>Preload 0.21N (21.2gf) 0.281N (28.6gf) at 0.33mm travel Current rating 2.9A</p> <p>MD38L34U-030N 0.5mm pitch, etc.</p> <p>*Limited quantity</p>	 <p>Preload 0.21N (21.2gf) 0.281N (28.6gf) at 0.33mm travel Current rating 2.9A</p> <p>MD38L348C-030N 0.5mm pitch, etc.</p>
 <p>Preload 0.21N (21.2gf) 0.281N (28.6gf) at 0.33mm travel Current rating 2.9A</p> <p>MD38L385V-030N 0.5mm pitch, etc.</p>	 <p>Preload 0.21N (21.2gf) 0.281N (28.6gf) at 0.33mm travel Current rating 2.9A</p> <p>MD38L448C-030N 0.5mm pitch, etc.</p>	 <p>Preload 0.21N (21.2gf) 0.281N (28.6gf) at 0.33mm travel Current rating 2.9A</p> <p>MD38L476V-030N 0.5mm pitch, etc.</p>

**M-pin Probe Outer Dia. $\phi 0.33 \sim \phi 0.38\text{mm} / 0.013 \sim 0.015"$
0.4~0.5mm pitch, etc.**

 <p>Preload 0.21N (21.2gf) 0.281N (28.6gf) at 0.33mm travel Current rating 2.9A</p> <p>MD38L548C-030N 0.5mm pitch, etc.</p>		
 <p>Preload 0.06N (6.6gf) 0.129N (13.2gf) at 0.3mm travel Current rating 1.8A</p> <p>MD33L289R-014N 0.4mm pitch, etc.</p>	 <p>Preload 0.06N (6.6gf) 0.129N (13.2gf) at 0.3mm travel Current rating 1.8A</p> <p>MD33L381V-014N 0.4mm pitch, etc.</p>	

**M-pin Probe Outer Dia. $\phi 0.27\text{mm}/ 0.010''$
0.35mm pitch**

Material

Plunger: BeCu, Gold over Ni plated

Spring : Stainless Steel, Gold over Ni plated

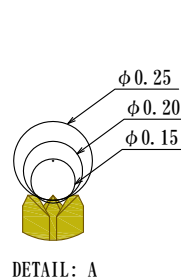
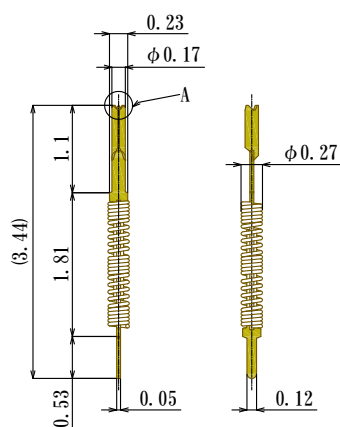
Specification

Spring force : 0.078N (8.0gf) at 0.3mm travel

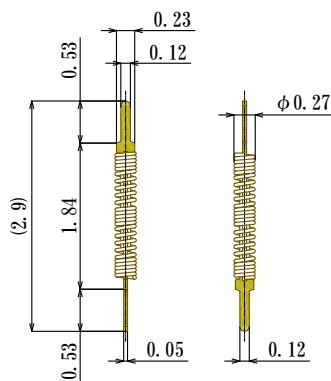
Contact resistance: $< 65\text{m}\Omega$

Temperature range : $-55^{\circ}\text{C} \sim +135^{\circ}\text{C}$

Current rating : 0.5A



MD27L344W-009N



MD27L29R-009N