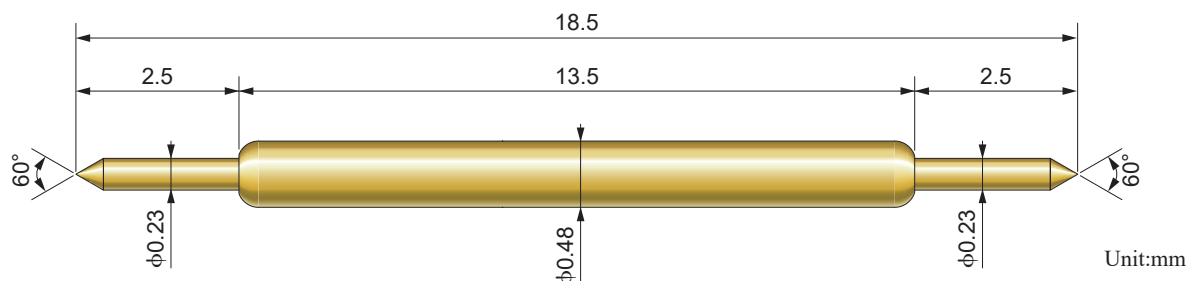


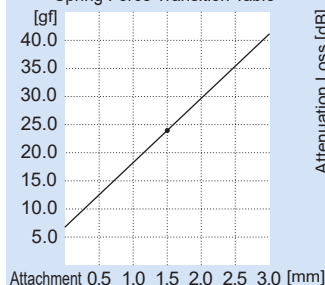
■ TW048-NB / NB-01

Tip Needle × Needle

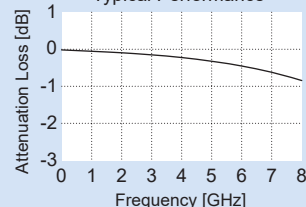


Stroke	3.0 mm		
Spring Force	6.8 gf	Preload	
	23.96±4.79 gf	1.5 mm Recommended Stroke	
Max. Current	1.0 A		
Parts Name	Material	Finish	Application
Plunger	Steel	Au Plated	Needle
Plunger	Steel	Au Plated	Needle
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

Spring Force Transition Table

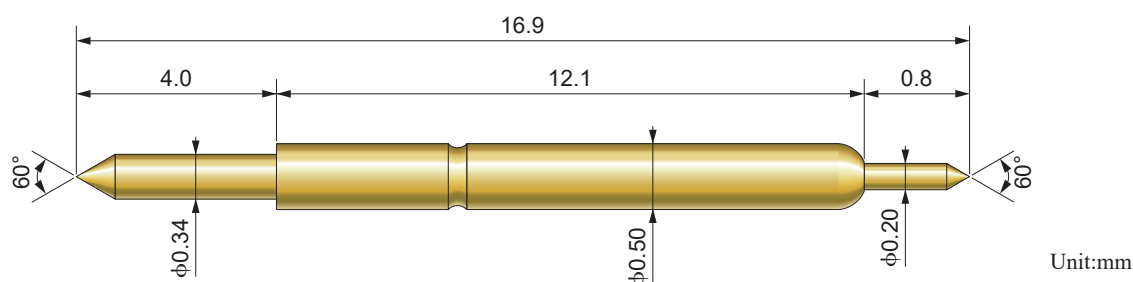


Typical Performance



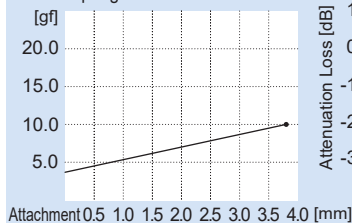
■ TW050-NB / NB-00

Tip Needle × Needle

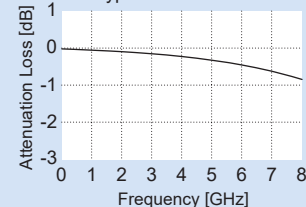


Stroke	3.8 mm		
Spring Force	3.67 gf	Preload	
	10.0±2.0 gf	3.6 mm Recommended Stroke	
Max. Current	1.0 A		
Parts Name	Material	Finish	Application
Plunger	Steel	Au Plated	Needle
Plunger	Steel	Au Plated	Needle
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

Spring Force Transition Table



Typical Performance



● All specifications are subject to change without notice.

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e-tw048-050-01

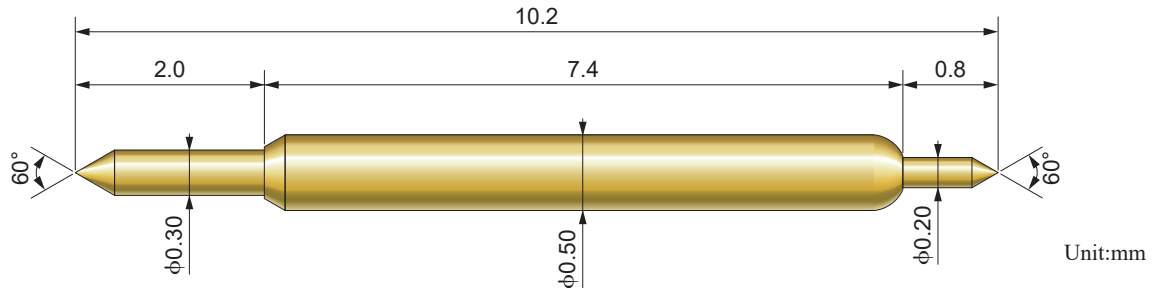
TW050 series Recommended Pitch 0.80 mm

TW068 series Recommended Pitch 1.00 mm



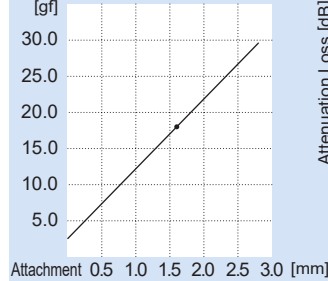
■ TW050-NB / NB-01

Tip Needle × Needle

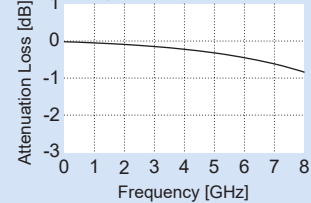


Stroke	2.8 mm		
Spring Force	2.55 gf	Preload	
	18.0±3.57 gf	1.6 mm Recommended Stroke	
Max. Current	1.0 A		
Parts Name	Material	Finish	Application
Plunger	Beryllium Copper	Au Plated	Needle
Plunger	Beryllium Copper	Au Plated	Needle
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

Spring Force Transition Table

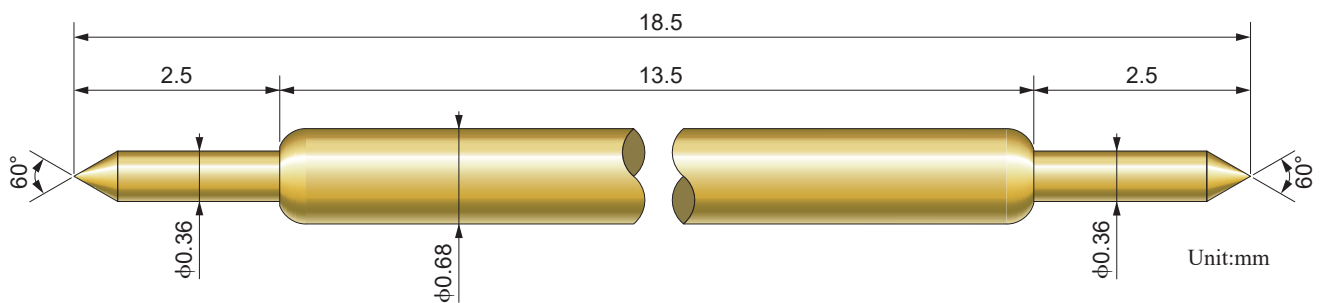


Typical Performance



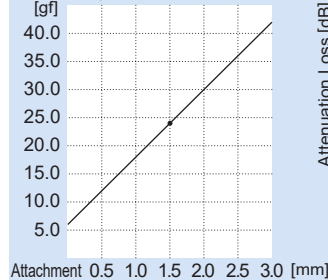
■ TW068-NB / NB-01

Tip Needle × Needle

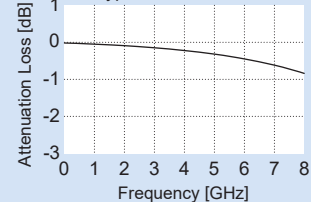


Stroke	3.0 mm		
Spring Force	6.0 gf	Preload	
	24.0±4.8 gf	1.5 mm Recommended Stroke	
Max. Current	1.0 A		
Parts Name	Material	Finish	Application
Plunger	Steel	Au Plated	Needle
Plunger	Steel	Au Plated	Needle
Barrel	Phosphor Bronze	Au Plated	
Spring	Piano Wire	Au Plated	

Spring Force Transition Table



Typical Performance



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e-tw050-068-01