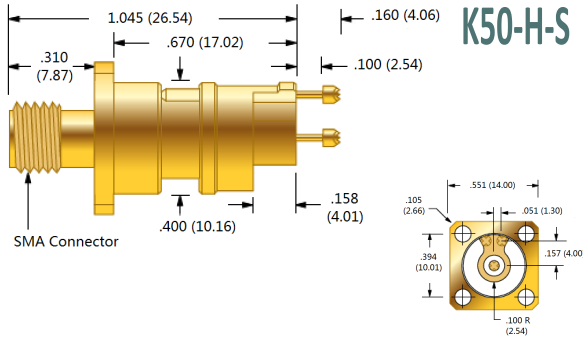


Test Probes for High Frequency

高频率探针

4 GHz up

K50-B-S
K50-H-S

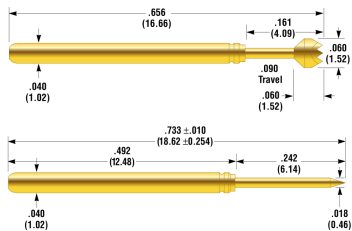
Mechanical and Electrical 机械和电解性能

Nominal Impedance 阻抗:	<50 mOhms
Minimum Return Loss 最小返回衰减:	
@ 1GHz	23 dB, 26 dB typical
Maximum Insertion Loss 最大插入衰减:	
@ 1GHz	0.12 dB, 0.06 dB typical
Maximum VSWR 最大 VSWR:	
@ 1GHz	1.15:1, 1.11:1 typical

Materials and Finishes 材料及表面处理

Housing 针套:	Copper Zinc Alloy, Gold plated 铜锌合金材料, 表面镀金
Dielectric 屏蔽管:	Premium virgin Teflon per MIL-P-18468
SMA Connector Pin 连接头:	BeCu, Gold plated 铍铜材料, 表面镀金

Replacement Probe 可替换的探针



SPL-01H-116

SPL-01B-119

Mechanical and Electrical 机械和电解性能

Full Travel 总行程:	0.100" (2.54mm)
Recommended Travel 建议行程:	0.090" (2.29mm)
Mechanical Life Cycles 机械寿命:	1 x 10 ⁶
Operating Temperature 操作温度:	-55°C to +105°C
Current Rating 电流:	6 amps continuous at work travel, non-inductive
Average Probe Resistance 测试针的平均阻抗值:	<10 mOhms

Spring Force in oz. (gram) 弹力系数

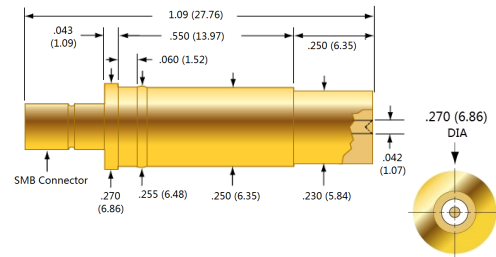
Spring Type 弹力类型	Preload 初压	2/3 Travel (2/3 行程)
Standard -1	4.47oz (127g)	12.0oz (340g)

Materials and Finishes 材料及表面处理

Plunger 针头:	Heat treated BeCu, Gold plated over hard Nickel 特殊处理的铍铜材料, 表面镀镍外加镀金
Barrel 针管:	Hardened Phosphor Bronze, Gold plated (I.D. and O.D.) 硬化处理的磷青铜材料, 内外壁表面镀金
Spring 弹簧:	Music Wire 琴弦
Ball 球:	Stainless Steel 不锈钢材料

CSP-03B-003
CSP-03G-003

3.7 GHz up



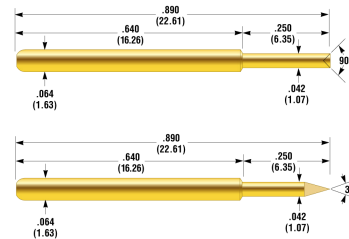
Mechanical and Electrical 机械和电解性能

Nominal Impedance 阻抗:	<50 mOhms
Dielectric Voltage Rating:	1K VAC
Maximum Insertion Loss 最大插入衰减:	
@ 1GHz	0.13 dB typical
Maximum VSWR 最大 VSWR:	
@ 1GHz	1.15:1 typical

Materials and Finishes 材料及表面处理

Housing 针套:	Copper Zinc Alloy, Gold plated 铜锌合金材料, 表面镀金
Dielectric 屏蔽管:	Premium virgin Teflon per MIL-P-18468
SMB Connector Pin 连接头:	BeCu, Gold plated 铍铜材料, 表面镀金

Replacement Probe 可替换的探针



SPL-03G-043

SPL-03B-121

Mechanical and Electrical 机械和电解性能

Full Travel 总行程:	0.250" (6.35mm)
Recommended Travel 建议行程:	0.167" (4.24mm)
Mechanical Life Cycles 机械寿命:	1 x 10 ⁶
Operating Temperature 操作温度:	-55°C to +105°C
Current Rating 电流:	6 amps continuous at work travel, non-inductive
Average Probe Resistance 测试针的平均阻抗值:	<50 mOhms

Spring Force in oz. (gram) 弹力系数

Spring Type 弹力类型	Preload 初压	2/3 Travel (2/3 行程)
Standard -1	0.80oz (22g)	4.0oz (114g)

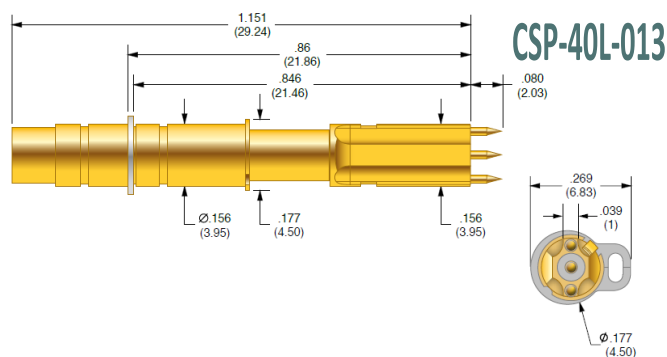
Materials and Finishes 材料及表面处理

Plunger 针头:	Heat treated BeCu, Gold plated 特殊处理的铍铜材料, 表面镀金
Barrel 针管:	Brass Gold plated (I.D. and O.D.) 黄铜材料, 内外壁表面镀金
Spring 弹簧:	Music Wire, Silver plated 琴弦, 表面镀银
Ball 球:	Stainless Steel 不锈钢材料

Test Probes for High Frequency

高频率探针

6 GHz up

CSP-40B-012
CSP-40L-013

Mechanical and Electrical 机械和电解性能

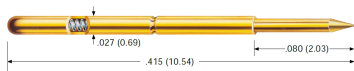
Nominal Impedance 阻抗:	<50 mOhms
Dielectric Voltage Rating:	1K VAC
Bandwidth @ 1GHz 最大插入衰减:	6 GHz

Materials and Finishes 材料及表面处理

Housing 针套:	Brass, Gold plated 黄铜材料, 表面镀金
Dielectric 屏蔽管:	Teflon

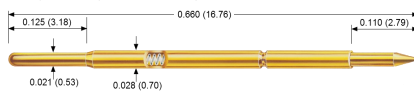
Replacement Probe 可替换的探针

Ground Pin (CSP-40B-012)



SPL-00B-089

Signal Pin (CSP-40B-012)



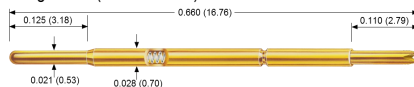
SPL-40B-045

Ground Pin (CSP-40L-013)



SPL-00L-088

Signal Pin (CSP-40L-013)



SPL-40L-046

Mechanical and Electrical 机械和电解性能

Full Travel 总行程:	0.200" (5.08mm)	Shield, 0.275" (6.99mm)
Recommended Travel 建议行程:	0.133" (3.38mm)	Shield, 0.211" (5.36mm)
Mechanical Life Cycles 机械寿命:	1 x 10 ⁶	
Operating Temperature 操作温度:	-35°C to +155°C	

Spring Force in oz. (gram) 弹力系数

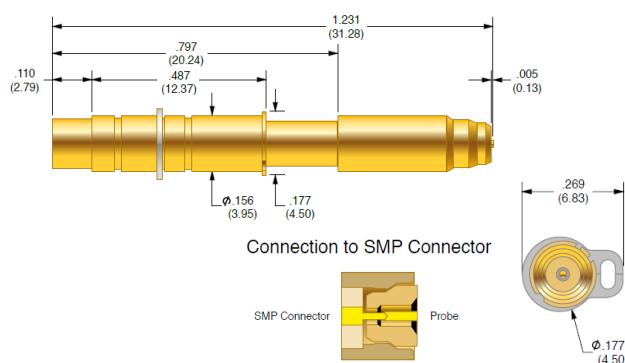
Spring Type 弹力类型	Preload 初压	2/3 Travel (2/3 行程)
Standard -1	1.9oz (53.9g)	8.0oz (226.8g)

Materials and Finishes 材料及表面处理

Plunger 针头:	BeCu, Gold plated over hard Nickel 铍铜材料, 表面镀金
Barrel 针管:	Nickel Silver, Gold plated 镍银材料, 表面镀金
Spring 弹簧:	Stainless Steel 琴弦

CSP-40A-015

6 GHz up



Connection to SMP Connector



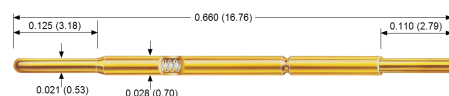
Mechanical and Electrical 机械和电解性能

Nominal Impedance 阻抗:	<50 mOhms
Dielectric Voltage Rating:	1K VAC
Bandwidth @ 1GHz 最大插入衰减:	6 GHz

Materials and Finishes 材料及表面处理

Housing 针套:	Brass, Gold plated 黄铜材料, 表面镀金
Dielectric 屏蔽管:	Teflon

Replacement Probe 可替换的探针



E1040-G

Mechanical and Electrical 机械和电解性能

Full Travel 总行程:	0.200" (5.08mm)	Shield, 0.275" (6.99mm)
Recommended Travel 建议行程:	0.133" (3.38mm)	Shield, 0.211" (5.36mm)
Mechanical Life Cycles 机械寿命:	1 x 10 ⁶	
Operating Temperature 操作温度:	-35°C to +155°C	

Spring Force in oz. (gram) 弹力系数

Spring Type 弹力类型	Preload 初压	2/3 Travel (2/3 行程)
Standard -1	6.2oz (175.2g)	8.0oz (226.8g)

Materials and Finishes 材料及表面处理

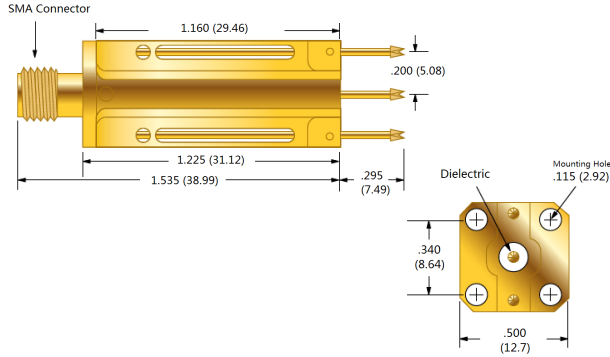
Plunger 针头:	BeCu, Gold plated over hard Nickel 铍铜材料, 表面镀金
Barrel 针管:	Nickel Silver, Gold plated 镍银材料, 表面镀金
Spring 弹簧:	Stainless Steel 琴弦

Test Probes for High Frequency

高频率探针

4 GHz up

K-50L



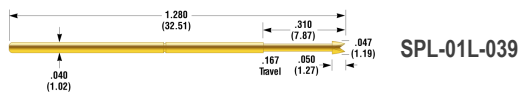
Mechanical and Electrical 机械和电解性能

Nominal Impedance 阻抗:	<50 mOhms
Minimum Return Loss 最小返回衰减:	
@ 1GHz	23 dB, 26 dB typical
Maximum Insertion Loss 最大插入衰减:	
@ 1GHz	0.12 dB, 0.06 dB typical
Maximum VSWR 最大 VSWR:	
@ 1GHz	1.15:1, 1.11:1 typical

Materials and Finishes 材料及表面处理

Housing 针套:	Copper Zinc Alloy, Gold plated 铜锌合金材料, 表面镀金
Dielectric 屏蔽管:	Premium virgin Teflon per MIL-P-18468
SMA Connector Pin 连接头:	BeCu, Gold plated 铍铜材料, 表面镀金

Replacement Probe 可替换的探针



Mechanical and Electrical 机械和电解性能

Full Travel 总行程:	0.250" (6.35mm)
Recommended Travel 建议行程:	0.225" (5.72mm)
Mechanical Life Cycles 机械寿命:	1 x 10 ⁶
Operating Temperature 操作温度:	-55°C to +105°C
Current Rating 电流:	6 amps continuous at work travel, non-inductive
Average Probe Resistance 测试针的平均阻抗值:	<10 mOhms

Spring Force in oz. (gram) 弹力系数

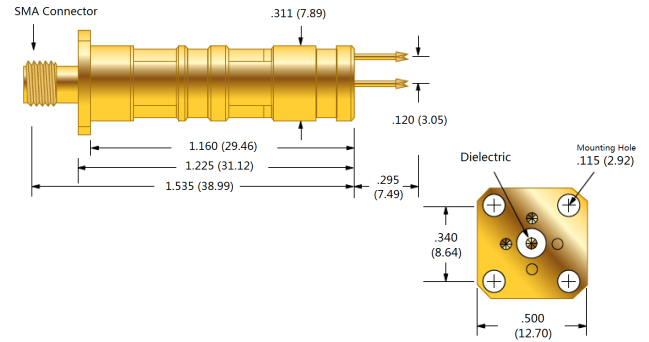
Spring Type 弹力类型	Preload 初压	2/3 Travel (2/3 行程)
Standard -1	1.09oz (30.9g)	2.71oz (76.8g)

Materials and Finishes 材料及表面处理

Plunger 针头:	Heat treated BeCu, Gold plated over hard Nickel 特殊处理的铍铜材料, 表面镀镍外加镀金
Barrel 针管:	Nickel Silver, Gold plated over hard Nickel (I.D. and O.D.) 镍银材料, 内外壁表面镀镍外加镀金
Spring 弹簧:	Music Wire, Silver plated 琴弦, 表面镀银
Ball 球:	Brass, Gold plated 黄铜材料, 表面镀金

K-50L-QG

4 GHz up



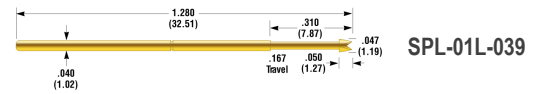
Mechanical and Electrical 机械和电解性能

Nominal Impedance 阻抗:	<50 mOhms
Minimum Return Loss 最小返回衰减:	
@ 1GHz	23 dB, 26 dB typical
Maximum Insertion Loss 最大插入衰减:	
@ 1GHz	0.12 dB, 0.06 dB typical
Maximum VSWR 最大 VSWR:	
@ 1GHz	1.15:1, 1.11:1 typical

Materials and Finishes 材料及表面处理

Housing 针套:	Copper Zinc Alloy, Gold plated 铜锌合金材料, 表面镀金
Dielectric 屏蔽管:	Premium virgin Teflon per MIL-P-18468
SMB Connector Pin 连接头:	BeCu, Gold plated 铍铜材料, 表面镀金

Replacement Probe 可替换的探针



Mechanical and Electrical 机械和电解性能

Full Travel 总行程:	0.250" (6.35mm)
Recommended Travel 建议行程:	0.225" (5.72mm)
Mechanical Life Cycles 机械寿命:	1 x 10 ⁶
Operating Temperature 操作温度:	-55°C to +105°C
Current Rating 电流:	6 amps continuous at work travel, non-inductive
Average Probe Resistance 测试针的平均阻抗值:	<10 mOhms

Spring Force in oz. (gram) 弹力系数

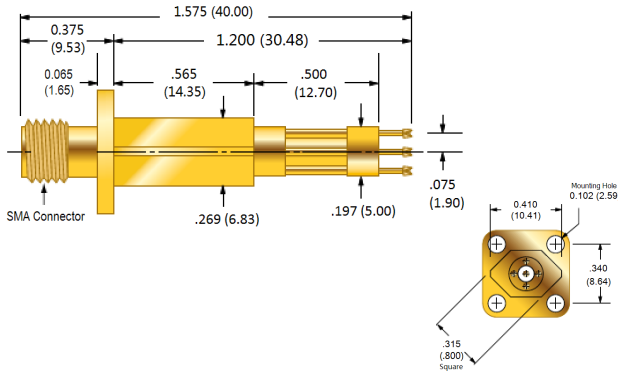
Spring Type 弹力类型	Preload 初压	2/3 Travel (2/3 行程)
Standard -1	1.09oz (30.9g)	2.71oz (76.8g)

Materials and Finishes 材料及表面处理

Plunger 针头:	Heat treated BeCu, Gold plated over hard Nickel 特殊处理的铍铜材料, 表面镀镍外加镀金
Barrel 针管:	Nickel Silver, Gold plated over hard Nickel (I.D. and O.D.) 镍银材料, 内外壁表面镀镍外加镀金
Spring 弹簧:	Music Wire, Silver plated 琴弦, 表面镀银
Ball 球:	Brass, Gold plated 黄铜材料, 表面镀金

12 GHz up

K-50L-QG-75



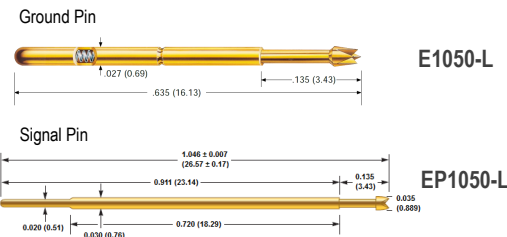
Mechanical and Electrical 机械和电性能

Nominal Impedance 阻抗:	<50 mOhms
Minimum Return Loss 最小返回衰减:	
@ 1GHz	23.8 dB, 22.8 dB typical
@ 5GHz	18.3 dB, 16.4 dB typical
@ 10GHz	17.7 dB, 17.0 dB typical
Minimum Insertion Loss 最小插入衰减:	
@ 1GHz	0.183 dB, 0.186 dB typical
@ 5GHz	0.370 dB, 0.371 dB typical
@ 10GHz	0.577 dB, 0.572 dB typical
Maximum VSWR 最大 VSWR :	
@ 1GHz	1.14:1, 1.16:1 typical
@ 5GHz	1.28:1, 1.36:1 typical
@ 10GHz	1.30:1, 1.33:1 typical

Materials and Finishes 材料及表面处理

Housing 针套:	Copper Zinc Alloy, Gold plated 铜锌合金材料, 表面镀金
Dielectric 屏蔽管:	Premium virgin Teflon per MIL-P-18468

Replacement Probe 可替换的探针



Mechanical and Electrical 机械和电性能

Full Travel 总行程:	0.100" (2.54mm)
Recommended Travel 建议行程:	0.067" (1.70mm)
Mechanical Life Cycles 机械寿命:	1 x 10 ⁶
Operating Temperature 操作温度:	-55°C to +105°C
Current Rating 电流:	3 amps continuous at work travel, non-inductive
Average Probe Resistance 测试针的平均阻抗值:	
E1050L-1	<35 mOhms
EP1050-L	<15 mOhms

Spring Force in oz. (gram) 弹力系数

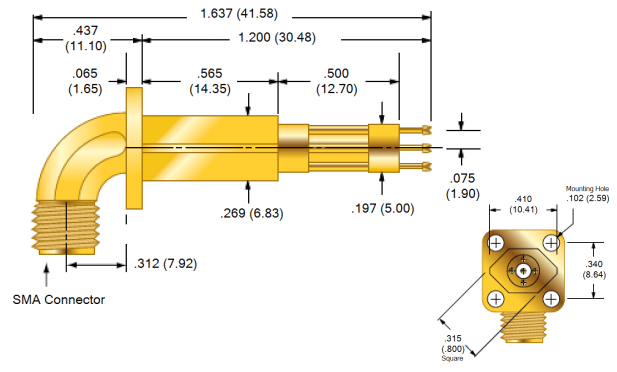
Spring Type 弹力类型	Preload 初压	2/3 Travel (2/3 行程)
E1050L-1 Standard -1	0.61oz (17g)	2.8oz (79g)
EP1050-L Standard -1	1.30oz (37g)	2.8oz (79g)

Materials and Finishes 材料及表面处理

Plunger 针头:	Heat treated BeCu, Gold plated over hard Nickel 特殊处理的铍铜材料, 表面镀镍外加镀金
Barrel 针管:	Phosphor Bronze, Gold plated over hard Nickel (I.D. and O.D.) 磷青铜材料, 内外壁表面镀镍外加镀金
Spring 弹簧:	Stainless Steel, Silver plated 不锈钢材料, 表面镀银

K-50L-QG-75R

12 GHz up



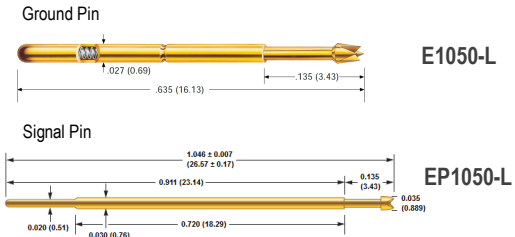
Mechanical and Electrical 机械和电性能

Nominal Impedance 阻抗:	<50 mOhms
Minimum Return Loss 最小返回衰减:	
@ 1GHz	25.1 dB, 25.2 dB typical
@ 5GHz	18.0 dB, 17.5 dB typical
@ 10GHz	27.0 dB, 35.3 dB typical
Minimum Insertion Loss 最小插入衰减:	
@ 1GHz	0.160 dB, 0.159 dB typical
@ 5GHz	0.421 dB, 0.405 dB typical
@ 10GHz	0.489 dB, 0.429 dB typical
Maximum VSWR 最大 VSWR :	
@ 1GHz	1.12:1, 1.12:1 typical
@ 5GHz	1.29:1, 1.31:1 typical
@ 10GHz	1.09:1, 1.03:1 typical

Materials and Finishes 材料及表面处理

Housing 针套:	Copper Zinc Alloy, Gold plated 铜锌合金材料, 表面镀金
Dielectric 屏蔽管:	Premium virgin Teflon per MIL-P-18468

Replacement Probe 可替换的探针



Mechanical and Electrical 机械和电性能

Full Travel 总行程:	0.100" (2.54mm)
Recommended Travel 建议行程:	0.067" (1.70mm)
Mechanical Life Cycles 机械寿命:	1 x 10 ⁶
Operating Temperature 操作温度:	-55°C to +105°C
Current Rating 电流:	3 amps continuous at work travel, non-inductive
Average Probe Resistance 测试针的平均阻抗值:	
E1050L-1	<35 mOhms
EP1050-L	<15 mOhms

Spring Force in oz. (gram) 弹力系数

Spring Type 弹力类型	Preload 初压	2/3 Travel (2/3 行程)
E1050L-1 Standard -1	0.61oz (17g)	2.8oz (79g)
EP1050-L Standard -1	1.30oz (37g)	2.8oz (79g)

Materials and Finishes 材料及表面处理

Plunger 针头:	Heat treated BeCu, Gold plated over hard Nickel 特殊处理的铍铜材料, 表面镀镍外加镀金
Barrel 针管:	Phosphor Bronze, Gold plated over hard Nickel (I.D. and O.D.) 磷青铜材料, 内外壁表面镀镍外加镀金
Spring 弹簧:	Stainless Steel, Silver plated 不锈钢材料, 表面镀银
Ball 球:	Brass, Gold plated 黄铜材料, 表面镀金