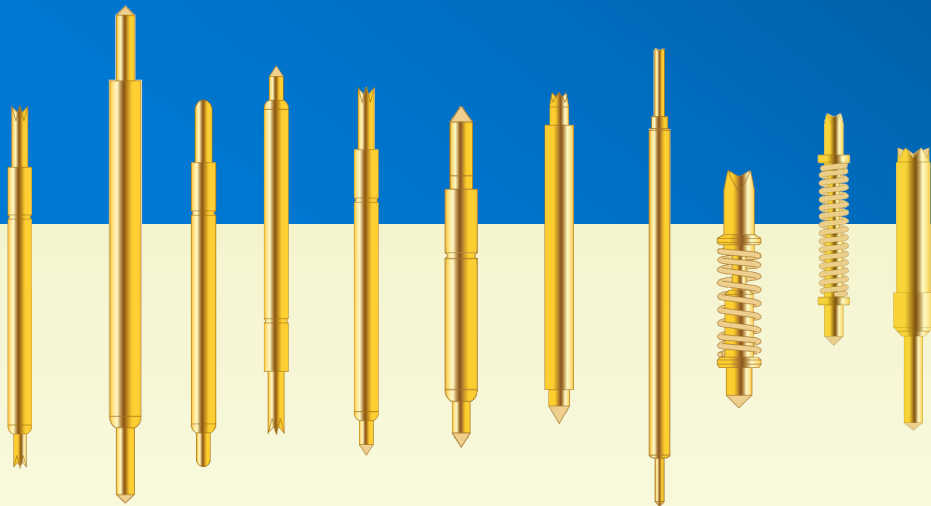


TRONIC



半导体测试探针 SEMICONDUCTOR PROBES



Contents

Double-ended Pogos

Pitch 间距	P/N 型号	Overall Length 总长度	Barrel Diameter 针管直径	Page 页
0.35mm	TGS-035-002	6.20mm	Ø0.26mm	 3
0.35mm	TGS-035-003	5.80mm	Ø0.28mm	 3
0.40mm	TGS-040-003	3.30mm	Ø0.31mm	 3
0.40mm	TGS-040-004	4.50mm	Ø0.31mm	 4
0.40mm	TGS-040-005	5.80mm	Ø0.31mm	 4
0.40mm	TGS-040-007	4.10mm	Ø0.31mm	 4
0.50mm	TGS-050-002	5.94mm	Ø0.35mm	 5
0.50mm	TGS-050-003	6.45mm	Ø0.35mm	 5
0.50mm	TGS-050-005	6.96mm	Ø0.35mm	 5
0.50mm	TGS-050-006	7.50mm	Ø0.35mm	 6
0.50mm	TGS-050-007	7.62mm	Ø0.35mm	 6
0.50mm	TGS-050-008	7.62mm	Ø0.35mm	 6
0.50mm	TGS-050-011	4.20mm	Ø0.35mm	 7
0.50mm	TGS-050-012	3.20mm	Ø0.38mm	 7
0.50mm	TGS-050-013	4.80mm	Ø0.38mm	 7
0.50mm	TGS-050-014	5.80mm	Ø0.38mm	 8
0.50mm	TGS-050-015	5.70mm	Ø0.38mm	 8
0.50mm	TGS-050-016	11.30mm	Ø0.35mm	 8
0.65mm	TGS-065-003	12.00mm	Ø0.50mm	 9
0.65mm	TGS-065-004	12.00mm	Ø0.50mm	 9
0.65mm	TGS-065-005	4.80mm	Ø0.51mm	 9
0.80mm	TGS-080-001	6.15mm	Ø0.58mm	10
0.80mm	TGS-080-002	5.08mm	Ø0.58mm	10
0.80mm	TGS-080-003	6.35mm	Ø0.58mm	10
0.80mm	TGS-080-004	8.68mm	Ø0.58mm	11
0.80mm	TGS-080-005	4.80mm	Ø0.58mm	11
0.80mm	TGS-080-006	5.10mm	Ø0.58mm	11
0.80mm	TGS-080-010	5.80mm	Ø0.58mm	12
0.80mm	TGS-080-011	5.99mm	Ø0.58mm	12
1.27mm	TGS-127-001	7.11mm	Ø0.76mm	12

Single-ended Probes

Pitch 间距	P/N 型号	Overall Length 总长度	Barrel Diameter 针管直径	Page 页
0.80mm	TMP-080	5.84mm	Ø0.52mm	13
1.00mm	TMP-100	5.84mm	Ø0.70mm	13
1.27mm	TMP-127	5.84mm	Ø0.95mm	13

Double-ended Probes

Pitch 间距	P/N 型号	Overall Length 总长度	Barrel Diameter 针管直径	Page 页
0.50mm	TPD-050	2.86mm	Ø0.23mm	14
0.75mm	TPD-075	3.00mm	Ø0.38mm	14
1.00mm	TPD-100	4.17mm	Ø0.50mm	14

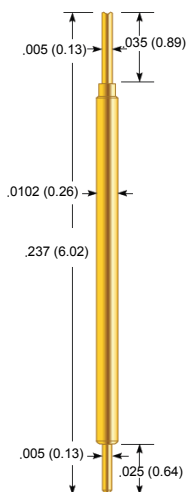
BGA/PGA Various Probes

Pitch 间距	P/N 型号	Overall Length 总长度	Barrel Diameter 针管直径	Page 页
2.54mm	TGS-K-001	33.27mm	Ø1.37mm	15
1.27mm	TGS-M01	4.83mm	Ø0.91mm	15
2.54mm	TGS-M02	14.63mm	Ø1.32mm	15
2.54mm	TGS-M03	22.25mm	Ø1.32mm	15
1.27mm	TGS-M04	11.58mm	Ø0.69mm	15
1.27mm	TGS-M05	17.27mm	Ø0.69mm	15
1.27mm	TGS-M06	12.06mm	Ø0.91mm	15

Handler Interface Probes

Pitch 间距	P/N 型号	Overall Length 总长度	Barrel Diameter 针管直径	Page 页
1.27mm	TGS-K-002	32.71mm	Ø0.89mm	15

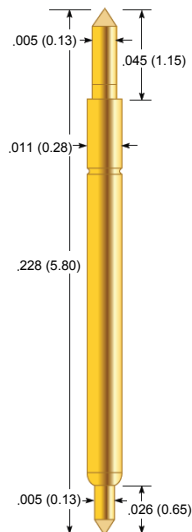
0.35 mm
TGS-035-002



Tip Style



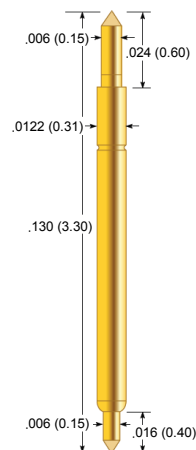
0.35 mm
TGS-035-003



Tip Style



0.40 mm
TGS-040-003



Tip Style



SPECIFICATION

PROBE SERIES 探针系列

TGS-035-002

TGS-035-003

TGS-040-003

Mechanical Specification 机械性能

Pitch 间距:	0.35 mm	0.35 mm	0.40 mm
Recommended Travel 建议行程:	0.51 mm	0.65 mm	0.50 mm
Full Travel 总行程:	0.64 mm	0.90 mm	0.65 mm
Mechanical Life 机械寿命:	250,000 cycles	200,000 cycles	200,000cycles
Operating Temperature 操作温度:	-55°C to +105°C	-55°C to +105°C	-55°C to +105°C
Spring Force in grams 弹力:	24 grams	20 grams	28 grams

Electrical Specification 电性能

Average DC Resistance 平均接触电阻:	<100 mOhms	<100 mOhms	<100 mOhms
Current Rating 电流:	2.0 amps	1.0 amps	1.0 amps
Self Inductance (Ls) 电感:	1.71 nH	1.51 nH	1.06 nH
Capacitance (Cc) 电容:	0.58 pF	1.47 pF	1.17 pF
Bandwidth 带宽:	@ -1dB 6.8 GHz	@ -0.03 dB 19 GHz	@ -0.26 dB 19 GHz

Materials and Finishes 材料及表面处理

Plunger End 针头:

Steel or BeCu, Gold plated over hard Nickel or NiPd solder or Lead free solder / SK4, Gold plated 钢或铍铜, 表面镀镍外加 24K 工业金或 NiPd 焊锡或无铅焊锡 / SK4, 表面镀 24K 工业金

Terminal End 尾端针头:

Steel or BeCu, Gold plated over hard Nickel / BeCu, Gold plated 钢或铍铜, 表面镀镍外加 24K 工业金 / 铍铜, 表面镀 24K 工业金

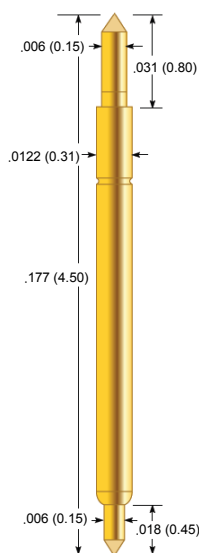
Barrel 针管:

Phosphorous Bronze, Gold plated over hard Nickel / Gold plated 磷青铜, 表面镀镍外加 24K 工业金 / 磷青铜, 表面镀 24K 工业金

Spring 弹簧:

Music Wire, Gold plated 琴弦, 表面镀 24K 工业金

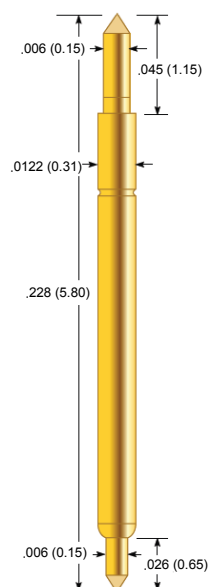
0.40 mm
TGS-040-004



Tip Style



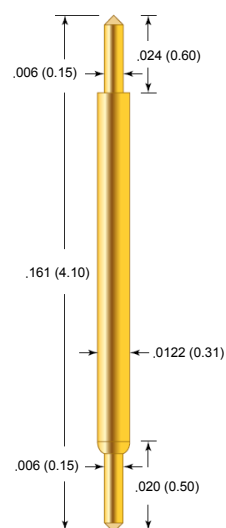
0.40 mm
TGS-040-005



Tip Style



0.40 mm
TGS-040-007



Tip Style



SPECIFICATION

PROBE SERIES 探针系列

TGS-040-004

TGS-040-005

TGS-040-007

Mechanical Specification 机械性能

Pitch 间距:	0.40 mm	0.40 mm	0.40 mm
Recommended Travel 建议行程:	0.55 mm	0.65 mm	0.45 mm
Full Travel 总行程:	0.70 mm	1.10 mm	0.65 mm
Mechanical Life 机械寿命:	200,000 cycles	200,000 cycles	200,000cycles
Operating Temperature 操作温度:	-55°C to +105°C	-55°C to +105°C	-55°C to +105°C
Spring Force in grams 弹力:	41 grams	20 grams	28 grams

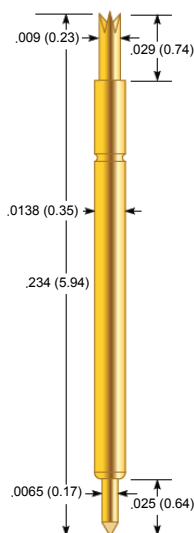
Electrical Specification 电性能

Average DC Resistance 平均接触电阻:	<100 mOhms	<100 mOhms	<100 mOhms
Current Rating 电流:	1.0 amps	1.0 amps	1.0 amps
Self Inductance (Ls) 电感:	1.31 nH	1.51 nH	1.33 nH
Capacitance (Cc) 电容:	1.32 pF	1.47 pF	1.29 pF
Bandwidth 带宽:	@ -0.009 dB 19 GHz	@ -0.03 dB 19 GHz	@ -0.10 dB 19 GHz

Materials and Finishes 材料及表面处理

Plunger End 针头:	SK4, Gold plated SK4, 表面镀 24K 工业金		
Terminal End 尾端针头:	SK4, Gold plated SK4, 表面镀 24K 工业金	/ BeCu, Gold plated / 铍铜, 表面镀 24K 工业金	/ SK4, Gold plated / SK4, 表面镀 24K 工业金
Barrel 针管:	Phosphorous Bronze, Gold plated 磷青铜, 表面镀 24K 工业金		
Spring 弹簧:	Music Wire, Gold plated 琴弦, 表面镀 24K 工业金		

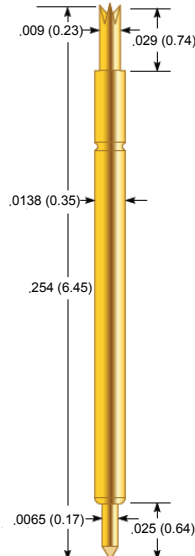
0.50 mm
TGS-050-002



Tip Style



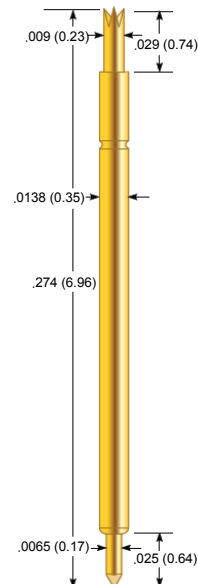
0.50 mm
TGS-050-003



Tip Style



0.50 mm
TGS-050-005



Tip Style



SPECIFICATION

PROBE SERIES 探针系列

TGS-050-002

TGS-050-003

TGS-050-005

Mechanical Specification 机械性能

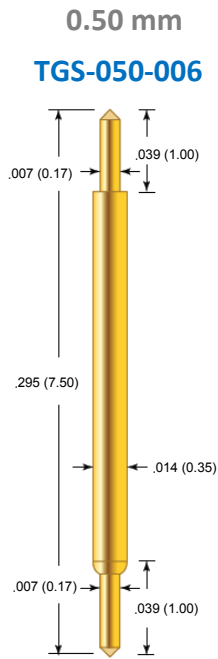
Pitch 间距:	0.50 mm	0.50 mm	0.50 mm
Recommended Travel 建议行程:	0.51 mm	0.51 mm	0.51 mm
Full Travel 总行程:	0.64 mm	0.64 mm	0.64 mm
Mechanical Life 机械寿命:	500,000 cycles	500,000 cycles	500,000cycles
Operating Temperature 操作温度:	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C
Spring Force in grams 弹力:	19.8 grams	19.8 grams	28.4 grams

Electrical Specification 电性能

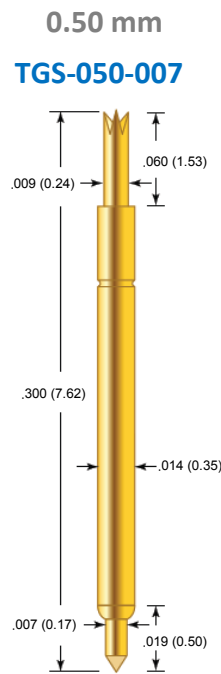
Average DC Resistance 平均接触电阻:	<100 mOhms	<100 mOhms	<100 mOhms
Current Rating 电流:	2.0 amps	2.0 amps	2.0 amps
Self Inductance (Ls) 电感:	1.50 nH	1.65 nH	1.79 nH
Capacitance (Cc) 电容:	0.63 pF	0.69 pF	0.75 pF
Bandwidth 带宽:	@ -1 dB 8.13 GHz	@ -1 dB 7.4 GHz	@ -1 dB 6.8 GHz

Materials and Finishes 材料及表面处理

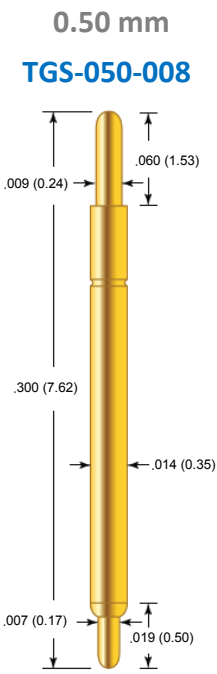
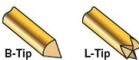
Plunger End 针头:	Steel or BeCu, Gold plated over hard Nickel or NiPd solder or Lead free solder 钢或铍铜, 表面镀镍外加 24K 工业金或 NiPd 焊锡或无铅焊锡
Terminal End 尾端针头:	Steel or BeCu, Gold plated over hard Nickel 钢或铍铜, 表面镀镍外加 24K 工业金
Barrel 针管:	Phosphorous Bronze, Gold plated over hard Nickel 磷青铜, 表面镀镍外加 24K 工业金
Spring 弹簧:	Steel Alloy, Gold plated 钢合金, 表面镀 24K 工业金



Tip Style



Tip Style



Tip Style



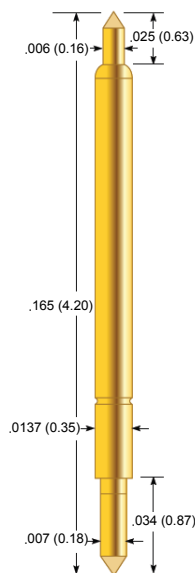
SPECIFICATION

PROBE SERIES 探针系列	TGS-050-006	TGS-050-007	TGS-050-008
Mechanical Specification 机械性能			
Pitch 间距:	0.50 mm	0.50 mm	0.50 mm
Recommended Travel 建议行程:	0.70 mm	0.62 mm	0.70 mm
Full Travel 总行程:	0.85 mm	0.80 mm	0.85 mm
Mechanical Life 机械寿命:	300,000 cycles	300,000 cycles	300,000cycles
Operating Temperature 操作温度:	-35°C to +105°C	-35°C to +105°C	-35°C to +105°C
Spring Force in grams 弹力:	24 grams	20 grams	20 grams
Electrical Specification 电学性能			
Average DC Resistance 平均接触电阻:	<120 mOhms	<120 mOhms	<120 mOhms
Current Rating 电流:	2.0 amps	2.0 amps	2.0 amps
Self Inductance (Ls) 电感:	-	-	-
Capacitance (Cc) 电容:	-	-	-
Bandwidth 带宽:	-	-	-

Materials and Finishes 材料及表面处理

Plunger End 针头:	BeCu, Gold plated 铍铜, 表面镀 24K 工业金
Terminal End 尾端针头:	BeCu, Gold plated 铍铜, 表面镀 24K 工业金
Barrel 针管:	Phosphorous Bronze, Gold plated 磷青铜, 表面镀 24K 工业金
Spring 弹簧:	Music Wire, Gold plated 琴弦, 表面镀 24K 工业金

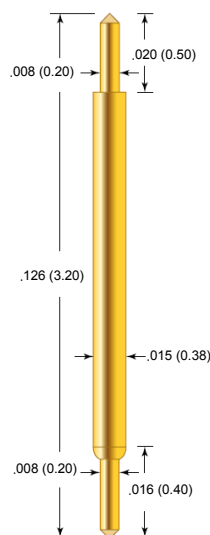
0.50 mm
TGS-050-011



Tip Style



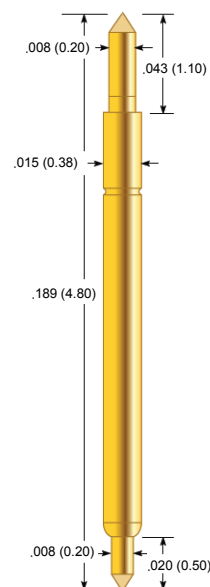
0.50 mm
TGS-050-012



Tip Style



0.50 mm
TGS-050-013



Tip Style



SPECIFICATION

PROBE SERIES 探针系列

TGS-050-011

TGS-050-012

TGS-050-013

Mechanical Specification 机械性能

Pitch 间距:	0.50 mm	0.50 mm	0.50 mm
Recommended Travel 建议行程:	0.45 mm	0.45 mm	0.60 mm
Full Travel 总行程:	0.60 mm	0.60 mm	1.05 mm
Mechanical Life 机械寿命:	200,000 cycles	200,000 cycles	200,000cycles
Operating Temperature 操作温度:	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C
Spring Force in grams 弹力:	35 grams	27 grams	33 grams

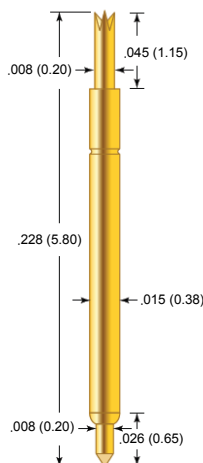
Electrical Specification 电性能

Average DC Resistance 平均接触电阻:	<100 mOhms	<100 mOhms	<100 mOhms
Current Rating 电流:	1.0 amps	1.0 amps	1.0 amps
Self Inductance (Ls) 电感:	1.28 nH	1.07 nH	1.32 nH
Capacitance (Cc) 电容:	1.44 pF	1.68 pF	1.21 pF
Bandwidth 带宽:	@ -0.007 dB 19 GHz	@ -0.15 dB 19 GHz	@ -0.14 dB 19 GHz

Materials and Finishes 材料及表面处理

Plunger End 针头:	SK4, Gold plated SK4, 表面镀 24K 工业金		
Terminal End 尾端针头:	SK4, Gold plated SK4, 表面镀 24K 工业金	/ BeCu, Gold plated / 铍铜, 表面镀 24K 工业金	/ BeCu, Gold plated / 铍铜, 表面镀 24K 工业金
Barrel 针管:	Phosphorous Bronze, Gold plated 磷青铜, 表面镀 24K 工业金		
Spring 弹簧:	Music Wire, Gold plated 琴弦, 表面镀 24K 工业金		

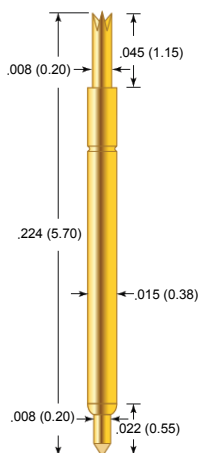
0.50 mm
TGS-050-014



Tip Style



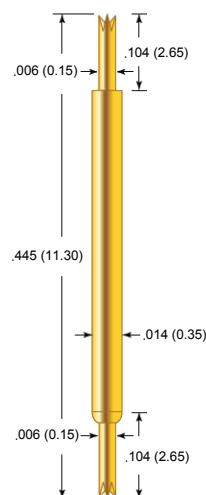
0.50 mm
TGS-050-015



Tip Style



0.50 mm
TGS-050-016



Tip Style

SPECIFICATION

PROBE SERIES 探针系列

TGS-050-014

TGS-050-015

TGS-050-016

Mechanical Specification 机械性能

Pitch 间距:	0.50 mm	0.50 mm	0.50 mm
Recommended Travel 建议行程:	0.65 mm	0.65 mm	1.00 mm
Full Travel 总行程:	0.95 mm	1.05 mm	2.50 mm
Mechanical Life 机械寿命:	200,000 cycles	200,000 cycles	200,000cycles
Operating Temperature 操作温度:	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C
Spring Force in grams 弹力:	20 grams	20 grams	15 grams

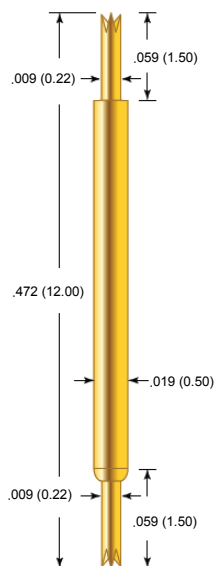
Electrical Specification 电性能

Average DC Resistance 平均接触电阻:	<100 mOhms	<100 mOhms	-
Current Rating 电流:	1.0 amps	1.0 amps	-
Self Inductance (Ls) 电感:	1.47 nH	1.35 nH	-
Capacitance (Cc) 电容:	0.35 pF	0.42 pF	-
Bandwidth 带宽:	@ -0.44 dB 19 GHz	@ -0.17 dB 19 GHz	-

Materials and Finishes 材料及表面处理

Plunger End 针头:	SK4, Gold plated SK4, 表面镀 24K 工业金	/ SK4, Gold plated / SK4, 表面镀 24K 工业金	/ Steel, Gold plated / 钢, 表面镀 24K 工业金
Terminal End 尾端针头:	BeCu, Gold plated 铍铜, 表面镀 24K 工业金	/ BeCu, Gold plated / 铍铜, 表面镀 24K 工业金	/ Steel, Gold plated / 钢, 表面镀 24K 工业金
Barrel 针管:	Phosphorous Bronze, Gold plated 磷青铜, 表面镀 24K 工业金	/ Phosphorous Bronze, Gold plated / 磷青铜, 表面镀 24K 工业金	/ Nickel Silver, Gold plated / 镍银, 表面镀 24K 工业金
Spring 弹簧:	Music Wire, Gold plated 琴弦, 表面镀 24K 工业金		

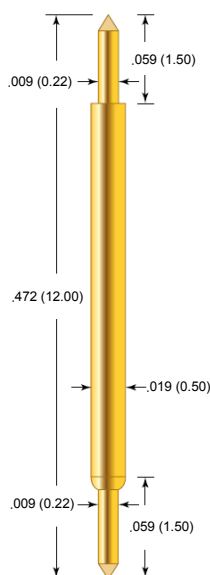
0.65 mm
TGS-065-003



Tip Style



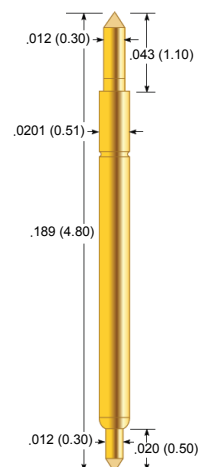
0.65 mm
TGS-065-004



Tip Style



0.65 mm
TGS-065-005



Tip Style



SPECIFICATION

PROBE SERIES 探针系列

TGS-065-003

TGS-065-004

TGS-065-005

Mechanical Specification 机械性能

Pitch 间距:	0.65 mm	0.65 mm	0.65 mm
Recommended Travel 建议行程:	0.75 mm	0.75 mm	0.60 mm
Full Travel 总行程:	1.55 mm	1.55 mm	0.75 mm
Mechanical Life 机械寿命:	500,000 cycles	500,000 cycles	500,000cycles
Operating Temperature 操作温度:	-35°C to +105°C	-35°C to +105°C	-55°C to +155°C
Spring Force in grams 弹力:	28 grams	28 grams	33 grams

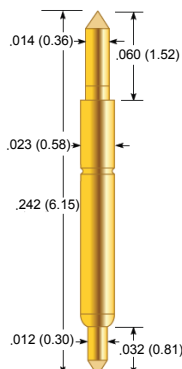
Electrical Specification 电性能

Average DC Resistance 平均接触电阻:	<100 mOhms	<100 mOhms	<100 mOhms
Current Rating 电流:	2.0 amps	2.0 amps	2.0 amps
Self Inductance (Ls) 电感:	-	-	1.22 nH
Capacitance (Cc) 电容:	-	-	0.43 pF
Bandwidth 带宽:	-	-	@ -0.15 dB 19 GHz

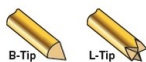
Materials and Finishes 材料及表面处理

Plunger End 针头:	Steel, Gold plated 钢, 表面镀 24K 工业金	/Steel, Gold plated /钢, 表面镀 24K 工业金	/SK4, Gold plated /SK4, 表面镀 24K 工业金
Terminal End 尾端针头:	Steel, Gold plated 钢, 表面镀 24K 工业金	/Steel, Gold plated /钢, 表面镀 24K 工业金	/BeCu, Gold plated /铍铜, 表面镀 24K 工业金
Barrel 针管:	Phosphorous Bronze, Gold plated 磷青铜, 表面镀 24K 工业金		
Spring 弹簧:	Music Wire, Gold plated 琴弦, 表面镀 24K 工业金		

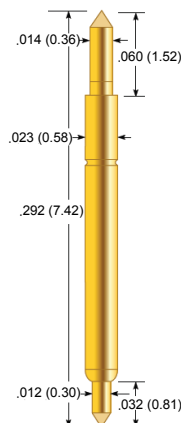
0.80 mm
TGS-080-001



Tip Style



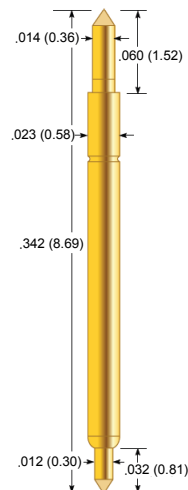
0.80 mm
TGS-080-002



Tip Style



0.80 mm
TGS-080-003



Tip Style



SPECIFICATION

PROBE SERIES 探针系列

TGS-080-001

TGS-080-002

TGS-080-003

Mechanical Specification 机械性能

Pitch 间距:	0.80 mm	0.80 mm	0.80 mm
Recommended Travel 建议行程:	0.76 mm	0.76 mm	0.76 mm
Full Travel 总行程:	1.02 mm	1.02 mm	1.02 mm
Mechanical Life 机械寿命:	500,000 cycles	500,000 cycles	500,000cycles
Operating Temperature 操作温度:	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C
Spring Force in grams 弹力:	31.2 grams	31.2 grams	31.2 grams

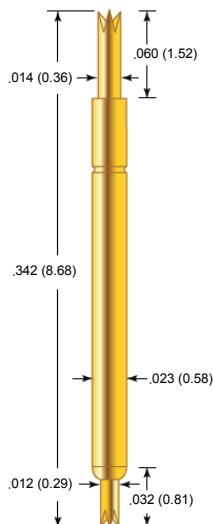
Electrical Specification 电解性能

Average DC Resistance 平均接触电阻:	<100 mOhms	<100 mOhms	<100 mOhms
Current Rating 电流:	3.0 amps	3.0 amps	3.0 amps
Self Inductance (Ls) 电感:	1.23 nH	1.52 nH	1.81 nH
Capacitance (Cc) 电容:	0.65 pF	0.81 pF	0.96 pF
Bandwidth 带宽:	@ -1 dB 9.23 GHz	@ -1 dB 7.45 GHz	@ -1 dB 5.25 GHz

Materials and Finishes 材料及表面处理

Plunger End 针头:	Steel or BeCu, Gold plated over hard Nickel or NiPd solder or Lead free solder 钢或铍铜, 表面镀镍外加 24K 工业金或 NiPd 焊锡或无铅焊锡
Terminal End 尾端针头:	Steel or BeCu, Gold plated over hard Nickel 钢或铍铜, 表面镀镍外加 24K 工业金
Barrel 针管:	Phosphorous Bronze, Gold plated over hard Nickel 磷青铜, 表面镀镍外加 24K 工业金
Spring 弹簧:	Steel Alloy, Gold plated 钢合金, 表面镀 24K 工业金

0.80 mm
TGS-080-004

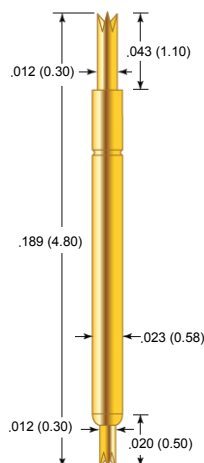


Tip Style



L-Tip

0.80 mm
TGS-080-005



Tip Style

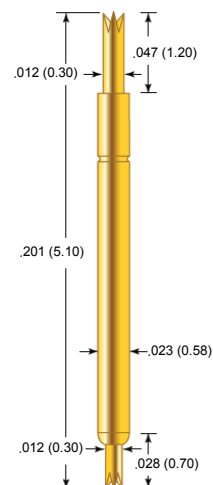


B-Tip

L-Tip

J-Tip

0.80 mm
TGS-080-006



Tip Style



L-Tip

SPECIFICATION

PROBE SERIES 探针系列

TGS-080-004

TGS-080-005

TGS-080-006

Mechanical Specification 机械性能

Pitch 间距:	0.80 mm	0.80 mm	0.80 mm
Recommended Travel 建议行程:	0.90 mm	0.60 mm	0.60 mm
Full Travel 总行程:	1.55 mm	0.75 mm	1.05 mm
Mechanical Life 机械寿命:	500,000 cycles	500,000 cycles	500,000cycles
Operating Temperature 操作温度:	-35°C to +105°C	-55°C to +155°C	-55°C to +155°C
Spring Force in grams 弹力:	20 grams	30 grams	25 grams

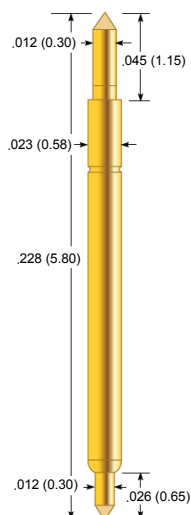
Electrical Specification 电性能

Average DC Resistance 平均接触电阻:	<120 mOhms	<100 mOhms	<100 mOhms
Current Rating 电流:	2.0 amps	2.0 amps	2.0 amps
Self Inductance (Ls) 电感:	-	1.18 nH	1.16 nH
Capacitance (Cc) 电容:	-	0.22 pF	0.25 pF
Bandwidth 带宽:	-	@ -0.33 dB 19 GHz	@ -0.41 dB 19 GHz

Materials and Finishes 材料及表面处理

Plunger End 针头:	BeCu, Gold plated 铍铜, 表面镀 24K 工业金	/SK4, Gold plated /SK4, 表面镀 24K 工业金	/SK4, Gold plated /SK4, 表面镀 24K 工业金
Terminal End 尾端针头:	BeCu, Gold plated 铍铜, 表面镀 24K 工业金		
Barrel 针管:	Phosphorous Bronze, Gold plated 磷青铜, 表面镀 24K 工业金		
Spring 弹簧:	Music Wire, Gold plated 琴弦, 表面镀 24K 工业金		

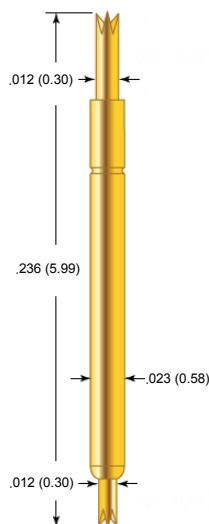
0.80 mm
TGS-080-010



Tip Style



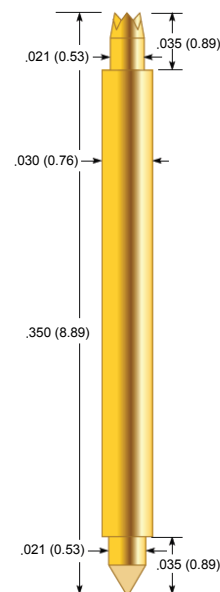
0.80 mm
TGS-080-011



Tip Style



1.27 mm
TGS-127-001



Tip Style



SPECIFICATION

PROBE SERIES 探针系列

TGS-080-010

TGS-080-011

TGS-127-001

Mechanical Specification 机械性能

Pitch 间距:	0.80 mm	0.80 mm	1.27 mm
Recommended Travel 建议行程:	0.65 mm	0.76 mm	0.76 mm
Full Travel 总行程:	1.00 mm	1.02 mm	1.02 mm
Mechanical Life 机械寿命:	500,000 cycles	25,000 cycles	500,000cycles
Operating Temperature 操作温度:	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C
Spring Force in grams 弹力:	25 grams	43 grams	31.2 grams

Electrical Specification 电解性能

Average DC Resistance 平均接触电阻:	<100 mOhms	<50 mOhms	<100 mOhms
Current Rating 电流:	2.0 amps	2.0-3.0 amps	3.0 amps
Self Inductance (Ls) 电感:	1.32 nH	-	1.81 nH
Capacitance (Cc) 电容:	0.32 pF	-	0.96 pF
Bandwidth 带宽:	@ -0.21 dB 19 GHz	-	@ -1 dB 5.25 GHz

Materials and Finishes 材料及表面处理

Plunger End 针头:

SK4, Gold plated / Steel or BeCu, Gold plated over hard Nickel or NiPd solder or Lead free solder
SK4, 表面镀 24K 工业金 / 钢或铍铜, 表面镀镍外加 24K 工业金或 NiPd 焊锡或无铅焊锡

Terminal End 尾端针头:

BeCu, Gold plated / Steel or BeCu, Gold plated over hard Nickel
铍铜, 表面镀 24K 工业金 / 钢或铍铜, 表面镀镍外加 24K 工业金

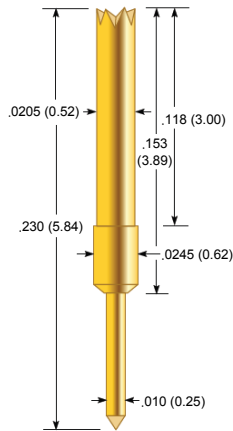
Barrel 针管:

Phosphorous Bronze, Gold plated / Gold plated over hard Nickel
磷青铜, 表面镀 24K 工业金 / 表面镀镍外加 24K 工业金

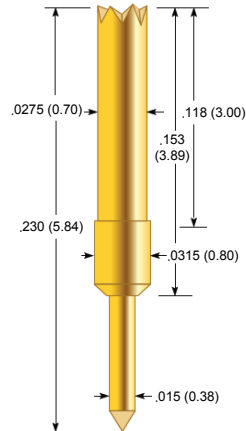
Spring 弹簧:

Music Wire, Gold plated / Steel Alloy, Gold plated
琴弦, 表面镀 24K 工业金 / 钢合金, 表面镀 24K 工业金

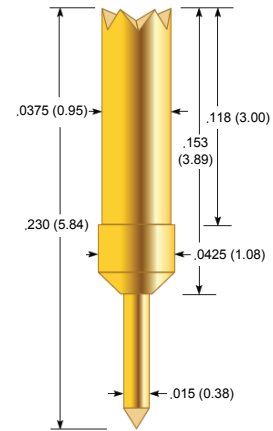
0.80 mm
TMP-080



1.00 mm
TMP-100



1.27 mm
TMP-127



Tip Style



Tip Style



Tip Style



SPECIFICATION

PROBE SERIES 探针系列

TMP-080

TMP-100

TMP-127

Mechanical Specification 机械性能

Pitch 间距:	0.80 mm	1.00 mm	1.27 mm
Recommended Travel 建议行程:	0.76 mm	0.76 mm	0.76 mm
Full Travel 总行程:	0.89 mm	0.89 mm	0.89 mm
Mechanical Life 机械寿命:	1,000,000 cycles	1,000,000 cycles	1,000,000cycles
Operating Temperature 操作温度:	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C
Spring Force in grams 弹力:	34 grams	34 grams	34 grams

Electrical Specification 电性能

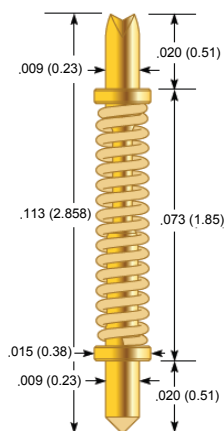
Average DC Resistance 平均接触电阻:	<50 mOhms	<50 mOhms	<50 mOhms
Current Rating 电流:	5.0 amps	7.0 amps	9.0 amps
Self Inductance (Ls) 电感:	1.27 nH	1.40 nH	1.40 nH
Capacitance (Cc) 电容:	0.12 pF	0.66 pF	0.79 pF
Bandwidth 带宽:	@ -1 dB 6.0 GHz	@ -1 dB 6.78 GHz	@ -1 dB 7.63 GHz

Materials and Finishes 材料及表面处理

Plunger 针头:	BeCu, Gold plated over hard Nickel 铍铜, 表面镀镍外加 24K 工业金
Barrel 针管:	BeCu, Gold plated over hard Nickel 铍铜, 表面镀镍外加 24K 工业金
Spring 弹簧:	Steel Alloy, Gold plated 钢合金, 表面镀 24K 工业金

0.50 mm

TPD-050

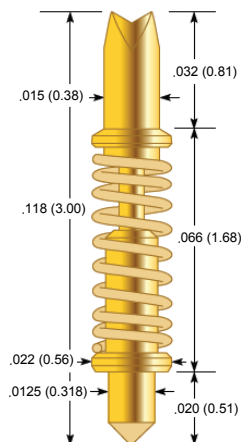


Tip Style



0.75 mm

TPD-075

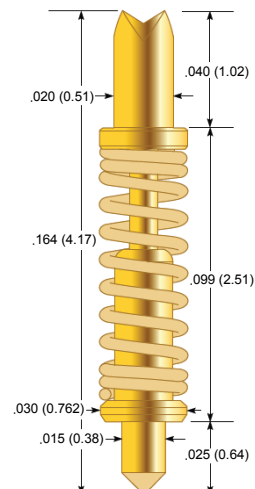


Tip Style



1.00 mm

TPD-100



Tip Style



SPECIFICATION

PROBE SERIES 探针系列

TPD-050

TPD-075

TPD-100

Mechanical Specification 机械性能

Pitch 间距:	0.50 mm	0.75 mm	1.00 mm
Recommended Travel 建议行程:	0.38 mm	0.38 mm	0.71 mm
Full Travel 总行程:	0.51 mm	0.51 mm	0.76 mm
Mechanical Life 机械寿命:	1,000,000 cycles	1,000,000 cycles	1,000,000cycles
Operating Temperature 操作温度:	-55°C to +155°C	-55°C to +105°C	-55°C to +155°C
Spring Force in grams 弹力:	31 grams	28 grams	39 grams

Electrical Specification 电性能

Average DC Resistance 平均接触电阻:	<50 mOhms	<50 mOhms	<50 mOhms
Current Rating 电流:	1.5 amps	2.0 amps	3.5 amps
Self Inductance (Ls) 电感:	0.95 nH	0.77 nH	1.30 nH
Capacitance (Cc) 电容:	0.28 pF	0.25 pF	0.34 pF
Bandwidth 带宽:	@ -1 dB 12.87 GHz	@ -1 dB 15.65 GHz	@ -1 dB 9.73 GHz

Materials and Finishes 材料及表面处理

Plunger 针头:

BeCu, Gold plated over hard Nickel or NiPd solder or Lead free solder

铍铜, 表面镀镍外加 24K 工业金或 NiPd 焊锡或无铅焊锡

Barrel 针管:

BeCu or Brass, Gold plated over hard Nickel

铍铜或黄铜, 表面镀镍外加 24K 工业金

Spring 弹簧:

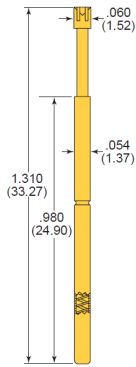
Steel Alloy or Music Wire, Gold plated over hard Nickel

钢合金或琴弦, 表面镀镍外加 24K 工业金

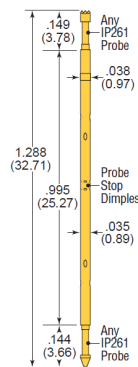
PGA Applications

Handler Interface Probe

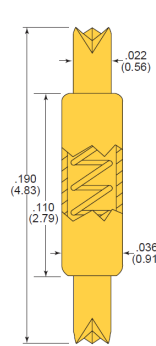
TGS-K-001



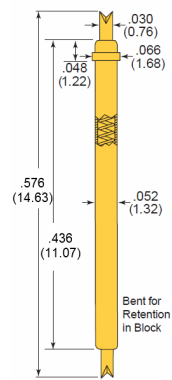
TGS-K-002



TGS-M01



TGS-M02



SPECIFICATION

PROBE SERIES 探针系列

TGS-K-001

TGS-K-002

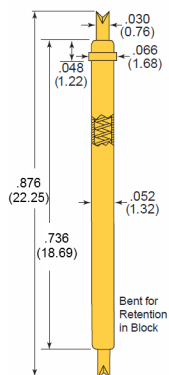
TGS-M01

TGS-M02

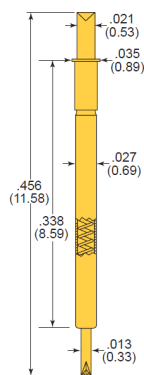
Pitch 间距:	2.54 mm	1.27 mm	1.27 mm	2.54 mm
Recommended Travel 建议行程:	4.22 mm	1.70 mm	0.76 mm	2.36 mm
Full Travel 总行程:	6.35 mm	2.54 mm	1.02 mm	3.56 mm
Mechanical Life 机械寿命:	>25,000 cycles	>1,000,000 cycles	>25,000cycles	>25,000cycles
Operating Temperature 操作温度:	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C
Spring Force in grams 弹力:	179 grams	79 grams	43 grams	57 grams
Average DC Resistance 平均接触电阻:	<50 mOhms	<35 mOhms	<50 mOhms	<50 mOhms
Current Rating 电流:	2-3 amps	3.0 amps	2-3 amps	2-3 amps

Double Ended Fine Pitch Contacts

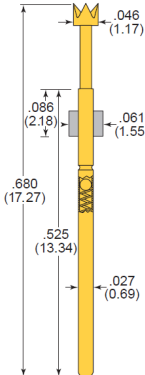
TGS-M03



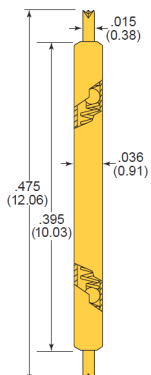
TGS-M04



TGS-M05



TGS-M06



SPECIFICATION

PROBE SERIES 探针系列

TGS-M03

TGS-M04

TGS-M05

TGS-M06

Pitch 间距:	2.54 mm	1.27 mm	1.27 mm	1.27 mm
Recommended Travel 建议行程:	2.36 mm	1.02 mm	2.54 mm	1.52 mm
Full Travel 总行程:	3.56 mm	2.03 mm	2.92 mm	2.03 mm
Mechanical Life 机械寿命:	>25,000 cycles	>25,000 cycles	>25,000cycles	>25,000cycles
Operating Temperature 操作温度:	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C
Spring Force in grams 弹力:	57grams	40 grams	82 grams	71 grams
Average DC Resistance 平均接触电阻:	<50 mOhms	<50 mOhms	<50 mOhms	<50 mOhms
Current Rating 电流:	2-3 amps	2-3 amps	2-3 amps	2-3 amps

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