

# Test Points With Glass Insulator

## Features

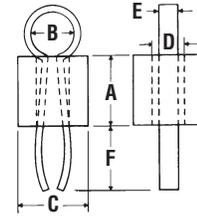
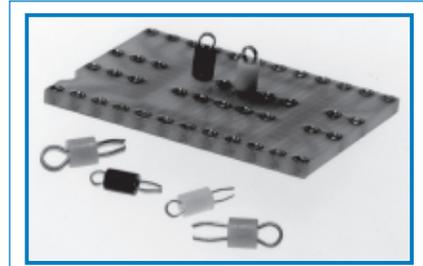
- Working temperature up to 475°C
- Six colors allow color coding
- Spring design allows firm attachment to PCB without damage to plated through holes
- Ring top allows firm attachment of probes, etc.
- Two sizes available

Designed to function as test points on PCB's, these terminals have a unique spring type design which allows them to be inserted and held firmly in place even when reversed for soldering without damaging plated through holes.

Each terminal is insulated with a Boro Silicate, sintered glass bead which is available in eight different colors to enable color coding.

Applications include points of attachment for test equipment, raising hot components above the PCB surface and for mounting components which may need frequent replacement. Groups of test points may also be used to allow for field configurability of PCB functions.

Two sizes are available, one for a 1.02 mm (.040") diameter hole, and one for a 1.32 mm (.052") diameter hole. The pin itself is manufactured from solder tinned, phosphor bronze. All terminals listed below are supplied in packs of 100 pieces.



Dimensions

## Ordering Information

PART NUMBER	BEAD COLOR	HOLE SIZE	MIN. CENTERS	Dimensions					
				A	B	C	D	E	F
01-1013	White	1.32 (.052)	3.20 (.126)	2.8-3.1 (.110-.122)	2.0-2.2 (.079-.087)	2.9-3.1 (.114-.122)	1.5-1.8 (.059-.070)	0.8 (.032)	2.8 (.110)
01-1014	Yellow								
01-1015	Black								
01-1016	Brown								
01-1017	Blue								
01-1018	Pink								
01-1036	Green	1.02 (.040)	2.5 (.098)	3.1-3.3 (.122-.130)	1.3-1.5 (.051-.059)	2.2-2.5 (.087-.098)	1.1-1.3 (.043-.051)	0.5 (.02)	2.8 (.110)
01-1019	White								
01-1020	Yellow								
01-1021	Black								
01-1022	Brown								
01-1023	Blue								
01-1024	Pink								
01-1034	Green								
01-1035	Red								

Test Points with glass insulator  
(Pack of 100) — \$14.99

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# Compliant Test Points

Each of these test points incorporate an ingenious kinked pin design used as a microminiature retention mechanism. This prevents damage to through-plated holes during insertion while providing sufficient retention for wave or hand soldering.

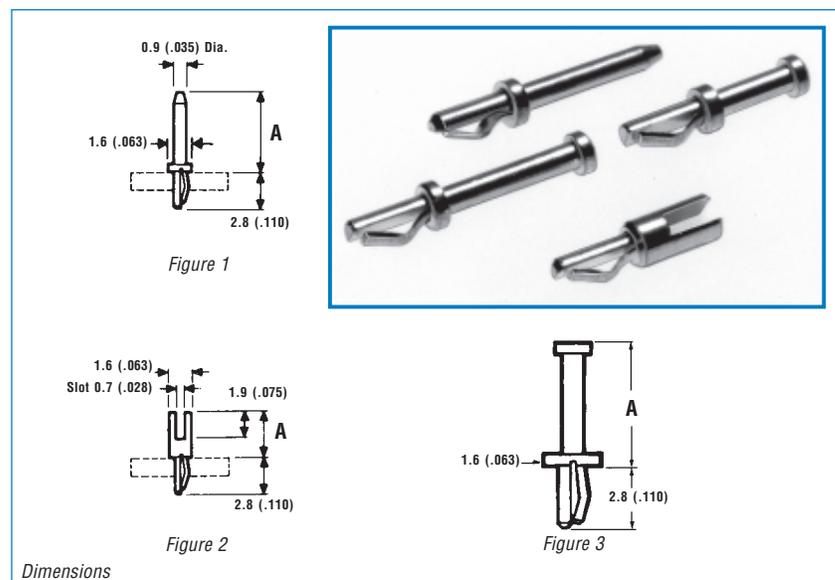
Minimum suitable board thickness for these pins is 1.4 mm (.055") and PCB hole sizes after plating should measure 0.96 to 1.12 mm (.041 ±.003").

All pins have a contact resistance of less than 5 milliohms and solderability exceeds the requirements of MIL-STD-750. Standard package size is 100 pieces.

## Material

Test Point: Phosphor Bronze

Finish: Tin lead



## Ordering Information

Part Number	Description	Figure	"A"
02-1002	Straight Pin	1	6.0 (.236)
02-1003	Slotted Head	2	3.1 (.122)
02-1004	Turret Head	3	4.0 (.158)
02-1005	Turret Head	3	6.0 (.236)

Compliant Test Points —  
\$0.20 each

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# SMT Ball And Socket Connector

## Features

- Designed for fast, consistent testing and connection of SMT assemblies
- Quick connect/disconnect with **click lock** feature
- Wide range of movement allows flexibility in applications.
- Two heights of test points available
- Supplied loose or on tape and reel for production applications using pick and place equipment

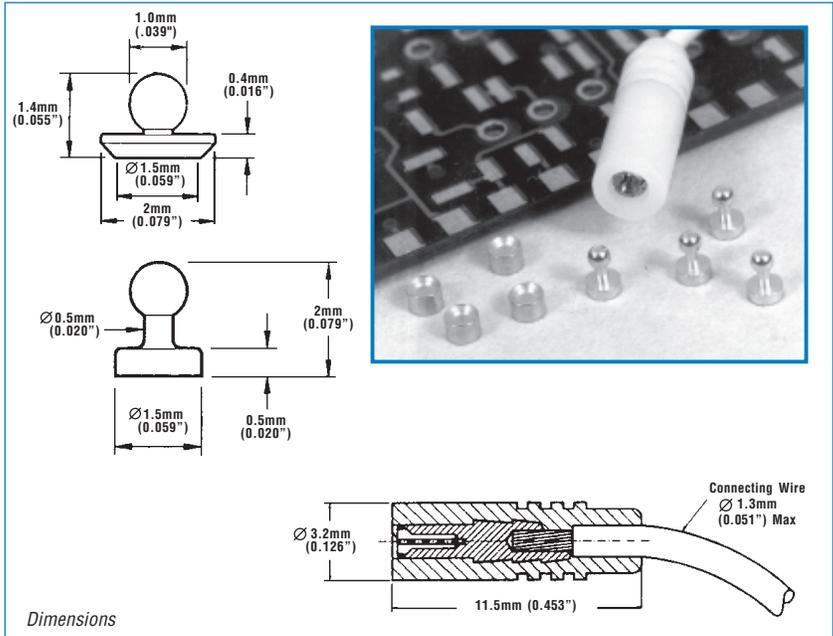
## Specifications

### Electrical and Mechanical

Recommended Pad Size:	2 mm
Contact resistance (including socket):	2 mΩ (max)
Socket insulation resistance:	10,000 MΩ
Operating temperature:	-55° to +125°C
Current rating:	3A
Max angular movement before disconnection:	±30°
Retention force (typ):	2 Kg.
Retention torque (typ):	200 gcm.

### Tape and Reel (02-105X only)

Reel sizes:	7" (2K & 3K test points) 13" (10K test points)
Tape:	4mm spacing, 8mm width



## Ordering Information

Description	Unit of Sale	Part Number		
Socket, white	Each	02-1033	\$1.55 each	[ADD TO CART]
Test point, H = 2mm	Each	02-1032	\$0.35 each	[ADD TO CART]
Test point, H = 1.4mm	Each	02-1049	\$0.35 each	[ADD TO CART]
Test point, H = 1.4mm	Reel, 3K pcs.	02-1050	\$810.00 each	[ADD TO CART]
Test point, H = 2mm	Reel, 2K pcs.	02-1080	\$581.00 each	[ADD TO CART]

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# SMT Test Points

These test point are designed to facilitate the connection of test probes to PCBs which are primarily surface mount in design. Supplied on tape and reel, these test points are readily inserted with most common pick and place equipment.

Note: Tops of test points are not plated. Be sure to orient properly before soldering.

## Specifications

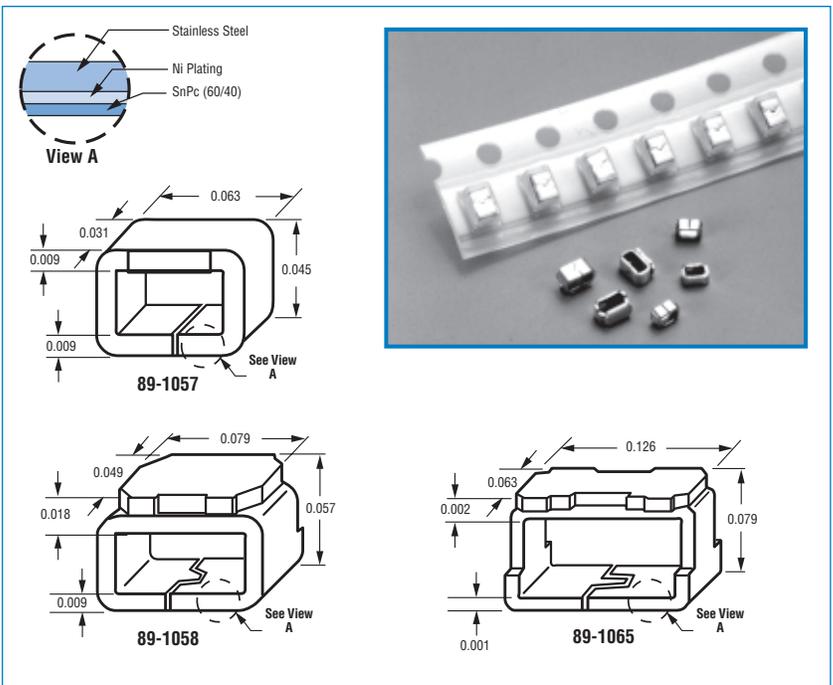
### Electrical

Contact resistance:	<50mΩ
Current rating:	2A
Operating temperature:	-55° to +125°C

### Materials & Finishes

Material:	Stainless Steel (SUS 304)
Finish:	Tin lead (60/40) over Nickel
Packaging:	Parts on 4mm pitch / 8mm tape width. 2,000 pieces/reel*

\* Quantities less than 2,000 pieces are supplied on tape cut from reel.



## Ordering Information

Part Number	Description	Length	Width	Height	
89-1057	0603 Test Point	.063" (1.6 mm)	.031" (0.8 mm)	.045" (1.15 mm)	\$0.22 each [ADD TO CART]
89-1058	0805 Test Points	.079" (2.0 mm)	.049" (1.25 mm)	.057" (1.45 mm)	\$0.22 each [ADD TO CART]
89-1065	1206 Test Points	.126" (3.2 mm)	.063" (1.6 mm)	.079" (2.0 mm)	\$0.30 each [ADD TO CART]

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