

Test Points With Glass Insulator

Features

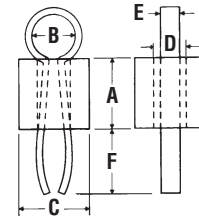
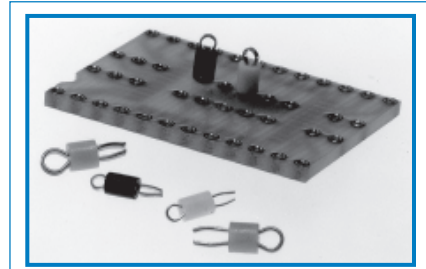
- Working temperature up to 475°C
- Eight colors allow color coding
- Spring design allows firm attachment to PCB without damage to plated through holes
- Ring top allows firm attachment of probes, etc.
- Three sizes available

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.

Three sizes are available, one for a 1.02 mm (.040") diameter hole and two for a 1.32 mm (.052") diameter hole (one of which offers extended leads). The pin itself is manufactured from 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 mm (inches)						PCB Thickness
				A	B	C	D	E	F	
01-1013 01-1014 01-1015 01-1016 01-1017 01-1018 01-1036 01-1037	White Yellow Black Brown Blue Pink Green Red	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")	1.58 (.062")
01-1019 01-1020 01-1021 01-1022 01-1023 01-1024 01-1034 01-1035	White Yellow Black Brown Blue Pink Green Red	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")	1.58 (.062")
01-1101 01-1102 01-1103 01-1104 01-1105 01-1106 01-1107 01-1108	White Yellow Black Brown Blue Pink Green Red	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")	3.57 (.141")	2.38 (.094")



Compliant Test Points

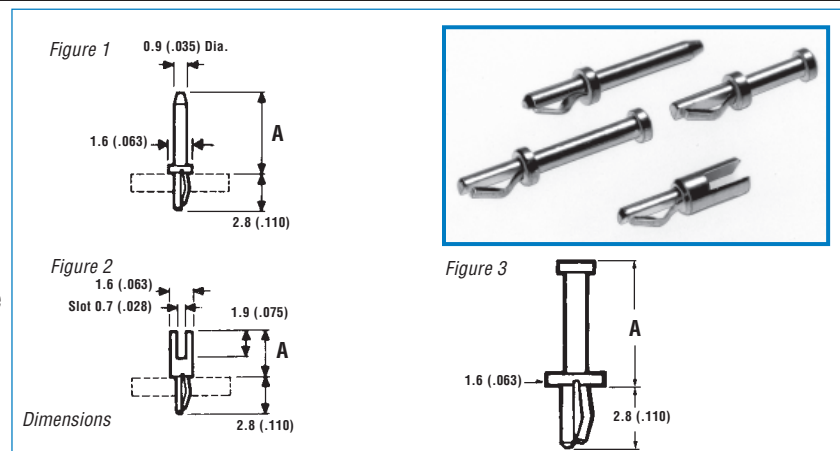
Each of these test points incorporate an ingenious kinked pin design used as a microminiature retention mechanism. This prevents damage to through-plated holes during insertion while providing sufficient retention for wave or hand soldering.

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.



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)



as of 06/01/2006

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

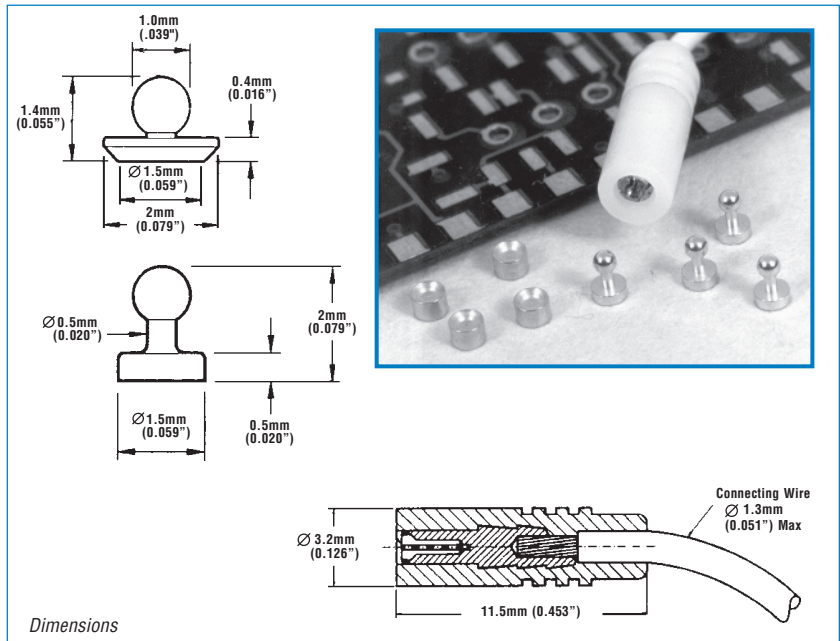
Specifications

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
Test point, H = 2mm	Each	02-1032
Test point, H = 1.4mm	Each	02-1049
Test point, H = 1.4mm	Reel, 3K pcs.	02-1050
Test point, H = 2mm	Reel, 2K pcs.	02-1080



SMT Test Points

These test points 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

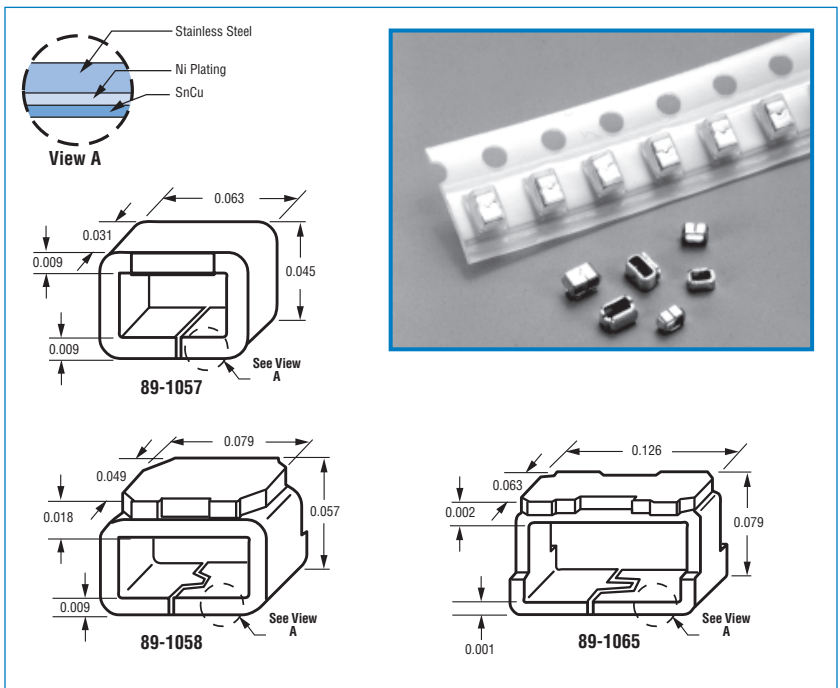
Electrical

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

Materials & Finishes

Material:	Stainless Steel (SUS 304)
Finish:	SnCu
Packaging:	Parts on 4mm pitch / 8mm tape width. 2,000

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



Ordering Information

P/N	Description	Length	Width	Height
89-1057	0603 Test Point	.063" (1.6 mm)	.031" (0.8 mm)	.045" (1.15 mm)
89-1058	0805 Test Points	.079" (2.0 mm)	.049" (1.25 mm)	.057" (1.45 mm)
89-1065	1206 Test Points	.126" (3.2 mm)	.063" (1.6 mm)	.079" (2.0 mm)

