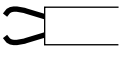
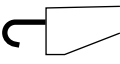
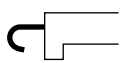
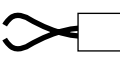
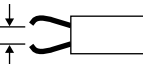





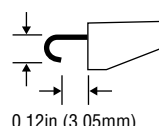



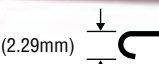
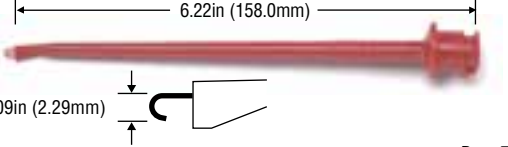
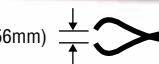
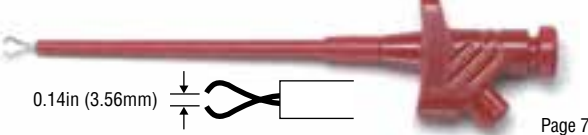


# Grabbers and Test Clips

Pomona Electronics' Grabber® Test Clips connect rapidly to component test leads, terminals and IC leads. Specially designed tips slide easily onto wire-wrap terminals. And do-it-yourself Grabber test clips can be assembled quickly and easily by the user.

 <p><b>Minipincer SMD Grabber</b> Page 74</p>	 <p><b>Minigrabber</b> Page 73</p>
 <p><b>Micrograbber</b> Page 73</p>	 <p><b>Rotating Micrograbber</b> Page 74</p>
<p><b>SMD</b></p>   <p>Page 79</p>	
<p><b>Micro</b></p>   <p>Page 74</p>	
<p><b>Micro</b></p>   <p>Page 74</p>	
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<p><b>SMD</b></p>   <p>Page 74</p>	
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<p><b>Maxi</b></p>   <p>Page 74</p>	

## Minigrabber® Test Clip with Banana Jack

Model# 4723-\*

Banana Jack built into plunger.

**Overall Length:** 2.54in (64.52mm).

**Rating:** Maximum voltage for *hands free use*. 300V, 5A, 216°F (+102°C) max.

\*Std Colors: -0 Black, -2 Red.

## Do-It-Yourself Minigrabber® Test Clips

Model#	Max. Wire Dia.	Temperature
3925-*	0.090in (2.29mm)	216°F (102°C)
4555-*	0.144in (3.55mm)	300°F (149°C)

**Overall Length:** 2.35in (59.69mm).

**Rating:** Maximum voltage for *hands free use*. 300V, 5A, +216°F (+102°C) max.\*

**Std Colors:** -0 Black, -2 Red.

Model#	Features
4176-02	Kit contains 2 pcs. of 3925, one black/one red
5522	Kit contains 10 pcs. of 3925, one of each color

## Minigrabber® Test Clip with Pin Tip Jack

Model# 4826-\*

A pin jack is built right into the plunger, allowing this test clip to be attached directly to the end of a pin tip patch cord. It can also be used as an adapter for test probes with 0.080in (2.03mm) tips.

**Overall Length:** 2.54in (64.52).

**Rating:** Maximum voltage for *hands free use*. 300V, 5A, 216°F (+102°C) max..

\*Std Colors: -0 Black, -2 Red.

## Oscilloscope Probe Tip Adapters

Model#	Probe Type
6443	Monolithic Series
6553	Modular Series

- Adapter attaches directly to the oscilloscope probe tip.
- Designed for use with Micro SMD Grabber Test Clips.



\*Color Code: -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, 5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White

**Ratings:** The components in this section have a hands free rating for use in con. However, for CE compliance these products are not intended for hand held use.



敏盛企業有限公司

<http://www.mavin.com.tw>

免責聲明

資料僅供參考，若有與原廠不合之處，請以原廠規格為準，且不供任何證明文件之用

TEL:03-5970828 FAX:03-5972622 新竹湖口工業區工業四路3號2F

**SMD Grabber® Test Clip with 0.025in (0.635mm) Square Pin**

Model#	Features
5360	Sold Individually

Pincer type contact designed for testing 0.05in (1.25mm) lead pitches such as SOJ, SOIC and PLCC surface mounted packages.

0.15in (3.81mm) sq. access hole leads to 0.025in (0.635mm) sq. pin.

**Overall Length:** 1.73in (43.94mm).

**Rating:** Maximum voltage for *hands free use*: 150V. 0.5A, 216°F (+102°C) max.

\*Std Colors: -0 Black, -2 Red.

0.025in (0.635mm) Square Pin Patch Cords available, see page 51.



**Do-It-Yourself Maxigrabber® Test Clips**

Model#	Max. Wire Dia.
4225-*	0.090in (2.29mm)
4565-*	0.144in (3.66mm)



Fits entry holes as small as 0.25in (6.35mm) dia.

**Overall Length:** 6.00in (152.4mm).

**Rating:** Maximum voltage for *hands free use*: 300V, 5A, +216°F (+102°C) max.

\*Std Colors: -0 Black, -2 Red.

For hook dimensions see page 73.

**Do-It-Yourself SMD Grabber® Test Clips**

Model#	Max. Wire Dia.
5243-*	0.090in (2.29mm)
5520	Kit containing 10 pcs of 5243 one of each color

Pincer type contact designed for testing 0.05in (1.27mm) lead pitches such as SOJ, SOIC and PLCC surface mounted packages.

**Overall Length:** 1.71in (43.43mm).

**Rating:** Maximum voltage for *hands free use*: 150V. 0.5A, 216°F (+102°C) max.

\*Std Colors: -0 Black, -2 Red, -4 Yellow, -5 Green, -9 White.



**Do-It-Yourself Flexible Maxigrabber® Test Clips**

Model#
5830-*



Rotating pincer type contact for easier access. Standard banana jack and screw for direct wire termination.

**Overall Length:** 6.22in (157.9mm).

**Rating:** Maximum voltage for *hands free use*: 250V.

\*Std Colors: -0 Black, -2 Red.

For pincer dimensions see page 73.

**Do-It-Yourself Micrograbber® Test Clips**

Model#	Features
4233-*	-0 Black, -2 Red, -5 Green, -9 White

**Overall Length:** 1.71in (43.43mm).

**Material:** Gold plated brass

**Rating:** 150V, 3A, +216°F (+102°C) max.

For hook dimensions see page 73.



**Insulated Minigator Test Clip to Pin Tip Jack**

Model#
3491-*



**Jaw Opening:** Alligator clip has 0.187in (4.75mm) max.

**Overall Length:** 2.05in (52.07mm).

**Rating:** Maximum voltage for *hands free use*: 45V. 5A, 122°F (+50°C) max.

\*Std Colors: -0 Black, -2 Red.

**Micrograbber® Test Clip with 0.025in (0.635mm) Square Pin**

Model#	Features
4521*	Sold individually

\*Std Colors: -0 Black, -2 Red.



**Do-It-Yourself Minipincer® Test Clip**

Model#
5418-*



Pincer type contact.

**Overall Length:** 2.59in (65.79mm).

**Rating:** Maximum voltage for *hands free use*: 300V. 5A, 176°F (+80°C) max.

\*Std Colors: -0 Black, -2 Red

For pincer dimensions see page 73.

**Miniature Alligator Test Clip with 2mm Banana Jack**

**5788-\***



**Jaw Opening:** 0.24in (6.10mm) max. .  
**Overall Length:** 1.57".  
**Rating:** 45V, +80°C (+176°F) max.  
**\*Std. Colors:** -0 Black, -2 Red.  
 Sold in pkgs of 10 per color.

**Medium Alligator Clip Set**



Model#	Features
5916A	Set of 2 Clips Black and Red

Insulated clip with sheathed 0.16in (4mm) receptacle accepts flexible lead sets 5907A, 5908A, 5909A (p. 64).

**Jaw Opening:** 0.30in (7.62mm) max.  
**Overall Length:** 2.25in (57.15mm).  
**Rating:** Cat I 300V, 5A.

**Mini-alligator Clip with 2mm Jack**



Model#	Color
72924-0	Black
72924-2	Red

**Rating:** 600V Cat II, 10A.

**Large Alligator Clip Set**



Model#	Features
6041B	Set of 2 Clips Black and Red
6042B-*	1 Clip

Insulated clip with sheathed 0.16in (4mm) receptacle accepts flexible lead sets 5907A, 5908A and 5909A (p. 64).

**Jaw Opening:** 1.0in (25.40mm) max.  
**Overall Length:** 3.5in (88.90mm).  
**Rating:** Conforms to IEC61010-2-031, Overvoltage Cat III, 1000V, 20A max.  
**\*Std. Colors:** -0 Black, -2 Red.

**Alligator Test Clip to Banana Jack, with Insulator, Solderable**

Model#	Plating	Features
3289-*	Gold	1 clip and insulator/pkg.
2240-*	Nickel	10 clips and insulators/pkg.
6567	Nickel	10 clips w/o insulators/pkg.



**Jaw Opening:** Alligator clip has 0.30in (7.62mm) max.  
**Overall Length:** 2.16in (54.86mm).  
**Rating:** Maximum voltage for *hands free use*: 150V. 5A, 122°F (+50°C) max.  
**\*Std Colors:** -0 Black, -2 Red.  
 Sold unassembled.

\*see rating message at start of section.

\*Color Code: -0 Black, -1 B  
 -5 Green, -6 F

Components and circuit boards are getting smaller and smaller. Pomona makes your job easier by providing clips and leads designed for micro-test, including a variety of 2mm connectors for use in tight spaces. From clips designed for chip pitches down to 0.008" (0.2 mm), to patch cords, and even complete SMD test kits, Pomona has the connection you need.

## SMD Multi-Use Test Kit

Model# 72928

SMD test kit designed for multiple small format test applications.

**Kit includes:**

1. 72902-0 Micro SMD Grabber Test Clips, (Black)
2. 72902-2 Micro SMD Grabber Test Clips, (Red)
3. 72906-0 Mini SMD Grabber Test Clips, (Black)
4. 72906-2 Mini SMD Grabber Test Clips, (Red)
5. 72905-0 Clip lead for Micro SMD Grabber - 0.8mm female/4 mm female, (Black)
6. 72905-2 Clip lead for Micro SMD Grabber - 0.8mm female/4 mm female, (Red)
7. 5908A Bench-top DMM Modular Test leads
8. 72920-39-0 Multi-stacking 2mm safety sheathed patch cords, PVC, 100mm (39in), (Black)
9. 72920-39-2 Multi-stacking 2mm safety sheathed patch cords, PVC, 100mm (39in), (Red)
10. 72923-0 SMD test probe with sharp, spring mounted tip, 2mm jack, (Black)
11. 72923-2 SMD test probe with sharp, spring mounted tip, 2mm jack, (Red)
12. 72917-0 4mm banana plug to 2mm sheathed banana jack adapter, (Black)
13. 72917-2 4mm banana plug to 2mm sheathed banana jack adapter, (Red)
14. 72924-0 Mini-alligator clip with 2mm jack, (Black)
15. 72924-2 Mini-alligator clip with 2mm jack, (Red)

Large Folding Test Kit Pouch

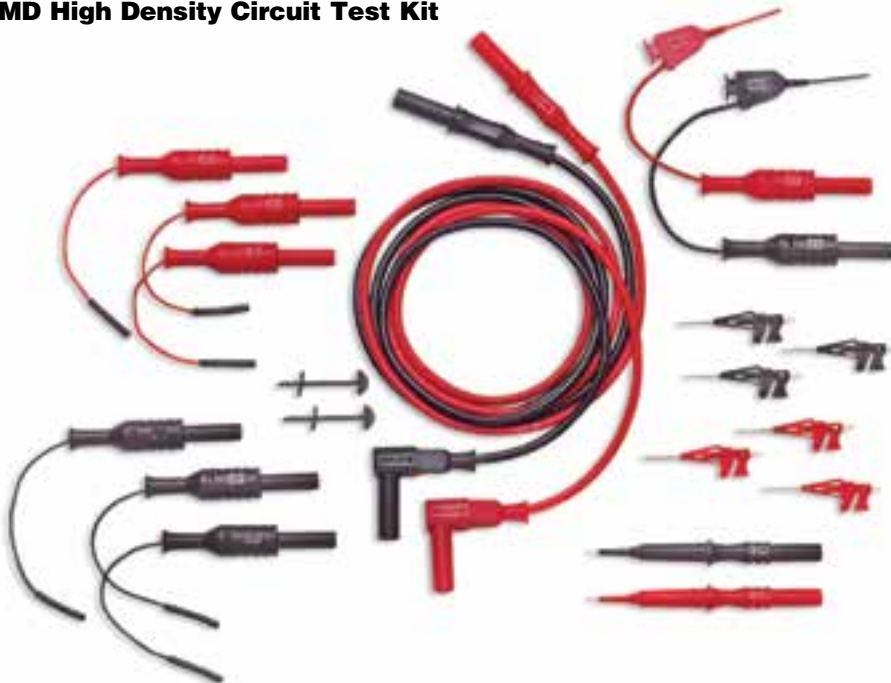


## SMD High Density Circuit Test Kit

Model# 72935

SMD test kit designed for probing high density circuits.

**Kit includes:** 2 DMM leads with 4mm plugs, 2 test probes with spring-loaded tips, 6 micro SMD grabbers (72902), 6 adapter leads 0.8mm female to 0.4mm jack, 2 mini SMD grabbers with 4mm connectors, 2 holding rods (72903).





**Micro SMD Grabber Test Clips Kit**



Model#	Includes
72902	12 clips, 12 leads, 6 rods

Kit of 12 Micro SMD Grabbers in 6 colors. Grabbers are designed for easy attachment to SMD chips with pitches down to 0.008in (0.20 mm). Thin yet durable design permits attachment with close spacing in tight areas. Insulated tip minimizes shorting on adjacent pins. Gold plating for low resistance connections. Kit also includes 6 holding rods to reinforce connection positions during side-by-side measurements (order Model# 72903). In addition, kit includes 12 micro leads with 0.8mm female / 0.8mm male connectors.

**Micro SMD Grabber Test Clips**



Model#	Color
72902-0	Singles - Black
72902-2	Singles - Red

Designed for easy attachment to SMD chips with pitches down to 0.008in (0.20 mm). Thin yet durable design permits attachment with close spacing in tight spaces. Insulated tip minimizes shorting on adjacent pins. Gold plating for low resistance connections. Holding rods available to reinforce connection positions during side-by-side measurements (order Pomona model number 72903). Order Pomona model number 72905-0 for clip lead for Micro SMD Grabber - 0.8mm female/4 mm female (black) or 72905-2 (red) for easy attachment to standard test leads. 72902 includes one black and one red clip. (Black).

**Holding Rods for Micro SMD Clips**



Model#	72903
Holding rods reinforce 72902 connection positions during side-by-side measurements. (10/pkg).	

**Clip lead for Micro SMD Grabber 0.8mm/2mm**



Model#	Color
72904-0	Black
72904-2	Red

Clip lead for easy attachment of Micro SMD Grabber to test leads with 2mm plugs. 0.8mm female/2 mm female.

**Clip lead for Micro SMD Grabber 0.8mm/4mm**



Model#	Color
72905-0	Black
72905-2	Red

Clip lead for easy attachment of Micro SMD Grabber (Pomona 72902) or Mini SMD Grabber (Pomona 72906) to standard test leads. 0.8mm female/4 mm female.

**Mini SMD Grabber Test Clips**



Model#	Color
72906-0	Black
72906-2	Red

Designed for easy attachment to SMD chips with pitches down to 0.032in (0.80 mm). Insulated shaft can be bent up to 36 degrees for versatile attachment in awkward locations or close proximity to other clips. Rotating jaws increase versatility in connection and stacking. Thin (3mm) profile allows close placement to adjacent clips. Compatible with leads with Ø0.8 mm female connectors. Order Pomona model number 72905-0 for clip lead for SMD Mini Grabber - 0.8mm female/4 mm female (black) or 72905-2 (red) for easy attachment to standard test leads.

**Mini SMD Grabber Test Clip with Lead and 2mm Jack**



Model#	Color
72907-20-0	Black
72907-20-2	Red

Mini SMD Grabber Test Clip (Pomona 72906) with 20 inch (50cm) lead and 2mm Jack.



**Mini SMD Grabber Test Clip with Lead and 4mm Jack**

Model#	Color
72929-20-0	Black
72929-20-2	Red

Mini SMD Grabber Test Clip (Pomona 72906) with 20 inch(50cm) lead and 4mm Jack for easy attachment to DMM leads.



**Do-it-yourself 2mm Stackable Safety Sheathed Plug**

Model#	Color
72925-0	Black
72925-2	Red

Rating: 600V Cat II 10A.



**SMD Test Probe with Sharp, Spring Mounted Tip**

Model#	Color
72923-0	Black
72923-2	Red

SMD test probe with sharp, spring mounted tip and 2mm jack. Provides ultra-fine control for probing high density SMD circuits. Very fine 0.03in (0.7mm) diameter stainless steel tip is spring-mounted for controlled pressure. Removable, clear IC insulator cap prevents shorting of adjacent IC loges. Sheathed 2mm receptacle adapts to 2mm test leads and adapters.

Rating: 600V Cat III, 1A.



**Mini-alligator Clip with 2mm Jack**

Model#	Color
72924-0	Black
72924-2	Red

Rating: 600V Cat II, 10A.

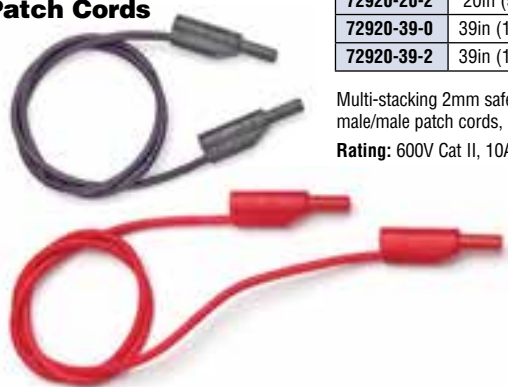


**Multi-stacking 2mm Safety Sheathed Patch Cords**

Model#	Length	Color
72920-20-0	20in (50cm)	Black
72920-20-2	20in (50cm)	Red
72920-39-0	39in (100cm)	Black
72920-39-2	39in (100cm)	Red

Multi-stacking 2mm safety sheathed male/male patch cords, PVC.

Rating: 600V Cat II, 10A Max.



**2mm Safety Sheathed Patch Cords**

Model#	Length	Color
72919-20-0	20in (50cm)	Black
72919-20-2	20in (50cm)	Red
72919-39-0	39in (100cm)	Black
72919-39-2	39in (100cm)	Red

2mm safety sheathed male/male patch cords, PVC.



**2mm/4mm Male-male Test Leads**

Model#	Length	Color
72936-0	3.9in (99.1mm)	Black
72936-2	3.9in (99.1mm)	Red



**4mm Safety Banana Jack to 2mm Banana Plug Adapter**


Model#	Color
72914-02	One Black and One Red
72914-0	Black
72914-2	Red

Accepts 4mm safety-sheathed banana plugs. 10/pkg.

Rating: 33 Vac/70 Vdc, 36A

**2mm Sheathed Jack to 2mm Unsheathed Plug Adapter**


Model#	Color
72915-0	Black
72915-2	Red

Accepts 2mm safety-sheathed banana plugs. 10/pkg.

Rating: 33 Vac/70 Vdc, 10A.

**4mm Banana Jack to 2mm Banana Jack Adapter**


Model#	Color
72916-0	Black
72916-2	Red

Accepts 2mm and 4mm safety-sheathed banana plugs. 10/pkg.

Rating: 33 Vac/70 Vdc, 10A.

**4mm Banana Plug to 2mm Sheathed Banana Jack Adapter**


Model#	Color
72917-0	Black
72917-2	Red

Accepts 2mm safety-sheathed banana plugs. 10/pkg.

Rating: 33 Vac/70 Vdc, 10A.

**2mm Safety Sheathed Jacks**


Model#	Color
72921-0	Black
72921-2	Red

2mm safety sheathed jack with 1.9mm wire wrap connecting pin.

Materials: Contacts: Nickel plated brass.  
Insulation: Polyamide.

Rating: 600V Cat II, 10A.

**2mm Safety Sheathed Jack with Solder Tab**


Model#	Color
72922-0	Black
72922-2	Red

Materials: Contacts: Nickel plated brass.  
Insulation: Polyamide.

Rating: 600V Cat II, 10A.

**Micro SMD Grabber® Test Clip for 0.05 to 0.01in (1.25 to 0.2 mm) Lead Pitch**


Model#	Profile Height	Lead Pitch	Tip	Qty	Colors
6442	0.28in (7mm) low	0.05 -0.01in (1.25 -0.3mm)	Long	10	10
6351	0.55in 14mm	0.03 -0.01in (0.85 -0.2mm)	Long	10	2
6352	0.55in 14mm	0.05 -0.01in (1.25 -0.3mm)	Long	10	2
6353	0.55in 14mm	0.05 -0.01in (1.25 -0.3mm)	Short	10	2

• Use with PQFP, SOIC, TSOP and SSOP packages with lead pitches down to 0.01 to 0.02in (0.2 to 0.5 mm).

• Thin body allows an unlimited number of clips to be stacked side by side.

• Maximum frequency is 100MHz.

Rating: For CE compliance and personal safety, do not hold in hand when voltages exceed 30 Vrms/42.4 Vpk/60 Vdc or current exceeds 8A maximum.

Maximum voltage for hands free use: 70 Vrms Max.

Supplied with female to male flying leads.

**Rotating Micrograbber® Test Clip with Two 0.025in (0.635mm) Square Pins**


Model#	Features
5790-*	Sold individually

Use when testing IC leads at 0.05in (1.25mm) pitch or in other tight situations. Pincers rotate for ease of access.

Overall Length: 2.12in (53.85mm)

Rating: 33 Vrms/70 Vdc

\*Std Colors: -0 Black, -2 Red.

**Micro SMD Grabber® Test Clip for 0.05 to 0.02in (1.25 to 0.5 mm) Lead Pitch**


Model# 6490-\*

• Use with PQFP & SOIC packages with 0.02in (0.5mm) lead pitch or greater.

• Pincers and 0.03in (0.76mm) pin plug are directly connected; no sliding parts.

• Pincers are stationary. Housing moves to close tips together.

• Device under test must be inactive when connecting pincers.

Rating: For CE compliance and personal safety, do not hold in hand when voltages exceed 30 Vrms/42.4 Vpk/60 Vdc or current exceeds 8A maximum.

Maximum voltage for hands free use: 70 Vrms Max.

\*Std Colors: -0 Black, -2 Red.

Pomona's oscilloscope probes give you the full range you need. Designed, rated, and specified to match the bandwidth of your instrument, they provide you with full voltage read-out over the entire rated bandwidth of each probe.



### Replacement Passive Oscilloscope Probes

These general purpose monolithic passive voltage probes feature high performance for greater test flexibility. Complete accessory kit included.

See selection guide below.

### Monolithic Passive Oscilloscope Probes

Model#	Probe Ratio	Maximum Input Voltage CAT I <sup>1</sup>	System Bandwidth MHz (-3 dB)	System Rise-time (ns)	Probe Input Resistance (MΩ)	Probe Input Capacitance (pF)	Compensation <sup>2</sup> Range (pF)	Readout Actuator <sup>4</sup>	Cable Length
4550B	1:1	300 <sup>2</sup>	Up to 15 <sup>3</sup> 100	< 23.33 <sup>3</sup> < 3.50	1	< 64 + O-Scope < 10.5	NA 10 - 60	No	4ft (1.2m)
	10:1	300							
5795A	10:1	300	100	< 3.50	10	< 9.5	10 - 60	No	4ft (1.2m)
5800A	1:1	300 <sup>2</sup>	Up to 30 <sup>3</sup> 200	< 11.66 <sup>3</sup> < 1.75	1	< 57 + O-Scope < 10	NA 10 - 60	No	4ft (1.2m)
5803A	10:1	300							
5806A	1:1	300 <sup>2</sup>	Up to 20 <sup>3</sup> 200	< 17.5 <sup>3</sup> < 1.75	1	< 77 + O-Scope < 11.5	NA 10 - 60	No	4ft (1.2m)
	10:1	300							
5809A	10:1	300	300	< 1.17	10	< 17	10 - 60	No	4ft (1.2m)
5812A	10:1	300	300	< 1.17	10	< 17	10 - 60	Yes	4ft (1.2m)
5827A	100: 1	300	200	< 1.75	10	< 5.5	15 - 50	No	6.6ft (2.0m)
6049A	10:1	300	150	< 2.33	10	< 10.5	10 - 30	No	4ft (1.2m)
6069A	10:1	300	250	< 1.40	10	< 10	10 - 30	No	4ft (1.2m)
6101A	10:1	300	150	< 2.33	10	< 10.5	10 - 30	Yes	4ft (1.2m)
6102A	10:1	300	250	< 1.40	10	< 10	10 - 30	Yes	4ft (1.2m)
	10:1	300							
6265	10:1	300	60	< 5.83	10	< 10.5	10 - 60	No	4ft (1.2m)
6266	1:1	300 <sup>2</sup>	Up to 20 <sup>3</sup> 60	< 17.5 <sup>3</sup> < 5.83	1	< 65 + O-Scope < 11	NA 10 - 60	No	4ft (1.2m)
	10:1	300							
SP150B	1:1	300 <sup>2</sup>	Up to 15 <sup>3</sup> 150	< 23.33 <sup>3</sup> < 3.33	1	< 50+ O-Scope < 15	NA 10 - 60	No	4ft (1.2m)
	10:1	300							

#### Replacement Accessory Kit: 6267

- Kit includes:**  
 Retractable Hook Tip  
 BNC Adapter  
 IC Adapter  
 Insulating Tip  
 Trimmer Tool  
 6in (0.15m) Ground Lead with Alligator Clip

#### Oscilloscope Probe Tip Adapter Model# 6443

This adapter provides an easy, fast, and reliable way to connect your oscilloscope probe to IC test adapters, test clips and grabbers using 0.025in (0.635mm) connection pins.

#### Pomona adapters with 0.025in (0.635mm) pins

- |      |      |                     |
|------|------|---------------------|
| 5360 | 6353 | All "IC" test clips |
| 5790 | 6490 |                     |
| 6351 | 6442 |                     |
| 6352 |      |                     |



1 **Rating:** All probes are rated 300V (DC + Peak AC), CAT I, per IEC1010-031. Maximum voltage allowed on the LO connection including shell and housing must not exceed 30V.  
 2 Maximum input voltages are dependent on the oscilloscope input characteristics; take the lesser of the two specifications.

3 Dependent upon oscilloscope input characteristics.  
 4 Any oscilloscope that uses the Tektronix® style range actuator.  
 5 For oscilloscopes with 1 MΩ input resistance.



**Modular Passive Oscilloscope Probes**



6500

Featuring a new, compact, ergonomically designed probe handle, these modular general purpose passive voltage probes are ideal for use with a wide variety of oscilloscopes. They also feature a spring-loaded, pogo-pin replaceable tip. The fine tip probes are perfectly suited for probing high-density chip leads with less than 0.060in (1.52mm) spacing. Modular in design, the probe handle is capable of receiving a variety of spring-loaded and fixed tips, providing greater testing versatility. An affordable, versatile probe for many uses.

Probe sets includes the probe, BNC adapter, ground blade, 8.7in (22cm) ground lead, IC tip adapters with 0.8mm to 1.27mm pitch, insulating tip, protection cap, solid tip, spring tip, sprung hook, trimmer tool, 2 footer positioner, and complete set of instructions and specifications.



Model#	Probe Ratio	Maximum Input Voltage CAT II <sup>1</sup>	Recommended Scope Bandwidth MHz	Bandwidth MHz (-3dB) (Probe) (System)	System Rise Time (ns)	Probe Input Resistance (MΩ)	Probe Input Capacitance (pF)	Compensation Range (pF)	Readout Actuator <sup>2</sup>	Cable Length	
6491	1:1	55 V	60	30	-	< 12	1	< 39.5	-	4ft (1.2m)	
6493	10:1	300 V	60	150	-	< 2.4	10	< 12.5	No	4ft (1.2m)	
6494	10:1	300 V	60	150	-	< 2.4	10	< 12.5	Yes	4ft (1.2m)	
6495	10:1	300 V	100	250	-	< 1.4	10	< 12.5	No	4ft (1.2m)	
6496	10:1	300 V	350	-	350	< 1	10	< 14.5	No	4ft (1.2m)	
6497	10:1	300 V	350	-	350	< 1	10	< 14.5	Yes	4ft (1.2m)	
6498	100:1	1000 V	500	-	400	< 0.9	50	< 7.5	No	6.6ft (2m)	
6499	1:1 10:1	55 V 300 V	60	20 150	- -	< 18 < 2.4	1 10	< 78 < 13	- 15 - 40	No	4ft (1.2m)
6500	1:1 10:1	55 V 300 V	100	30 250	- -	< 12 < 1.4	1 10	< 80 < 13	NA 10 - 35	No	4ft (1.2m)

**Replacement Accessory Kit: 73040**

- Kit includes:**  
 Retractable Hook Tip  
 BNC Adapter  
 Insulating Tip  
 Trimmer Tool  
 8.7in (22cm) Ground Lead with Alligator Clip  
 1 ea. Rigid Probe Tip  
 1 ea. Spring Probe Tip

**Oscilloscope Probe Tip Adapter Model# 6553**



This adapter provides an easy, fast, and reliable way to connect your oscilloscope probe to IC test adapters, test clips and grabbers using 0.025in (0.635mm) connection pins.

**Pomona adapters with 0.025in (0.635mm) pins**

- 5360 6353 All "IC" test clips  
 5790 6490  
 6351 6442  
 6352



1 **Rating:** Per IEC61010-031. Maximum voltage allowed on the low or ground connection including shell and housing must not exceed 30V.  
 2 Any oscilloscope that uses the Tektronix® style range actuator

**Microline Passive Oscilloscope Probes**



Tips can be replaced with Pomona 0.60in (1.52mm) probe tips model number 6475, see page 66.

500 MHz X10 Passive Voltage Probe 4ft (1.2m) cable, 500V peak.

The perfect solution for accessing hard-to-reach test points, particularly fine pitch IC leads. The Microline Probe features a 500 MHz X10 passive voltage probe compactly designed for on-the-go field service or in the lab.

**Pomona adapters with 0.025in (0.635mm) pins**

5360	6352	6442
5790	6353	All "IC" test clips
6351	6490	



**Replacement Accessory Kit: 73040**

- Kit includes:**  
 Retractable Hook Tip  
 BNC Adapter  
 Insulating Tip  
 Trimmer Tool  
 8.7in (22cm) Ground Lead with Alligator Clip  
 1 ea. Rigid Probe Tip  
 1 ea. Spring Probe Tip

**Oscilloscope Probe Tip Adapter Model# 6553**

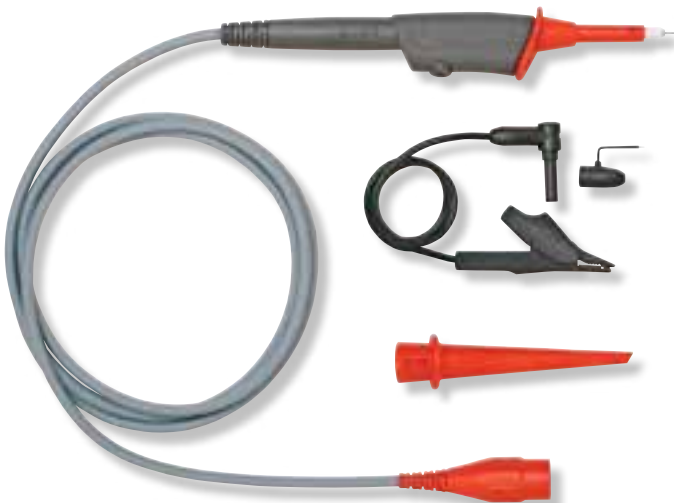


This adapter provides an easy, fast, and reliable way to connect your oscilloscope probe to IC test adapters, test clips and grabbers using 0.025in (0.635mm) connection pins.

Model#	Probe Ratio	Maximum Input Voltage CAT 1 <sup>1</sup>	Recommended Scope Bandwidth MHz	System Bandwidth MHz (-3dB)	System Risettime (ns)	Probe Input Resistance (M $\Omega$ )	Probe Input Capacitance (pF)	Compensation Range (pF)	Readout Actuator <sup>2</sup>	Cable Length
6551	10: 1	300 V	500	500	< 0.7	10	< 11	10 - 20	Yes	4ft (1.2m)
6554	10: 1	300 V	500	500	< 0.7	10	< 11	10 - 20	No	4ft (1.2m)

<sup>1</sup> Rating: Per IEC61010-031. Maximum voltage allowed on the low or ground connection including shell and housing must not exceed 30V.  
<sup>2</sup> Any oscilloscope that uses the Tektronix® style range actuator

**Insulated Oscilloscope Probes for Portable Applications**



**Features**

- With a CAT II, 600 V (CAT III, 300 V) rating, these probes are perfect for use with portable oscilloscopes.
- And with a 500 MHz bandwidth, these probes provide plenty of headroom for those high frequency measurements.
- Fully Insulated.
- Meets IEC 61010-031.
- Ergonomic Design with Comfort Grip.

**Accessories Included**

- Push-On Hook Clip.
- Push-On Reference Contact.
- Reference lead with alligator clip for the connection to the 0.2 mm safety socket in the handle.

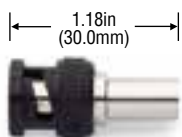
Model#	Probe Ratio	Maximum Input Voltage CAT II <sup>1</sup>	Bandwidth (MHz)	Input Resistance (M $\Omega$ )	Input Capacitance (pF)	Approximate Risettime (ns)	Compensation Range (pF)	Cable Length	
72940-*	10: 1	600 V	500	10	13	1	10 - 30	4ft (1.2m)	
72941 (set)	10: 1	600 V	500	10	13	1	10 - 30	4ft (1.2m)	
72942	See page 60								

<sup>1</sup> Derated with frequency.  
<sup>2</sup> For oscilloscopes with 1M $\Omega$  input resistance.  
 \*Standard Colors: -2 Red, -8 Gray

# Audio/Video/Broadcast

Whether setting up your own home theater or looking for connectors for that next broadcast event, Pomona audio/video/broadcast accessories get you connected reliably. From F connectors to phono jacks, look to Pomona for parts you can depend on.

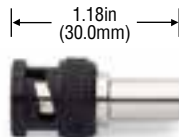
## High Definition 75 BNC Connectors



6702A



6703A



6704A

Model#	For Cable
6702A	RG59B/U, 20 AWG, Belden 1505A
6703A	RG6B/U, 18 AWG, Belden 1694A
6704A	RG59B/U, 23 AWG

Precision matched to Belden cable for digital and analog SDI/HDTV signals.

**Performance:** 3 GHz with VSWR of 1.15

**Impedance:** 75Ω.

**BNC:** *Shell:* precision machined tarnish resistant black nickel-plated brass; *Center Contact:* male: gold-plated brass (20 micro inches).

**Dielectric:** PTFE.

## XLR Straight Cable Connectors — General Duty



5125A



5126A

Model#	Type	Pins	Shell	Contacts	Lbs of Pull
5125A	(f)	5	Nickel	Silver	45
5126A	(m)	5	Nickel	Silver	45
6850	(f)	3	Black Nickel	Gold	45
6851	(m)	3	Black Nickel	Gold	45
7283	(m)	3	Nickel	Silver	45
7284	(f)	3	Nickel	Silver	45

Streamlined profile with compact shell. Time saving assembly (3 parts). No set screws. Solderable.

## XLR Plug to XLR Jack Low Noise Cable Assembly



Model#	Length
6869-180	4.6 m (15 ft)
6869-300	7.6 m (25 ft)

Low noise audio cable includes a 3-pin XLR male connector and a 3 contact XLR female connector.

**Pull:** 45.35 kg (100 lbs).

**Material:** *Shell:* tarnish resistant black nickel-plated brass; *Center Contact:* gold-plated brass.

## XLR (F) 3-Pin Square Flanged Panel Receptacle

7115



3-pin XLR square panel mount female receptacle with sturdy all metal one piece design. Housing is die-cast zinc alloy with tarnish resistant black nickel plating and gold-plated contacts. Solder cup terminations. Front mountable.

## XLR/RCA Adapters



7269



7270



7271



7272

Model#	Type
7269	XLR (f)/RCA (m)
7270	XLR (m)/RCA (m)
7271	XLR (f)/RCA (f)
7272	XLR (m)/RCA (f)

Audio adapters offer 3 contact XLR to RCA (phono) conversion. Body is die cast zinc alloy with tarnish resistant nickel plating. Contacts are nickel-plated brass.

## XLR Female Panel Receptacle, 3-Pin

5113A



3-pin XLR rectangular panel mount receptacle with sturdy all metal one piece design. Housing is die-cast zinc alloy with tarnish resistant nickel plating. Solder cup terminations. Front mountable.



**XLR Adapters**



Model#	Type
6856	XLR (F)/XLR (F)
6857	XLR (M)/XLR (M)

Body is die cast zinc alloy with tarnish resistant nickel plating. Male pin contacts are nickel-plated brass. Female contacts are nickel-plated beryllium copper.

**XLR Male Panel Receptacle, 3-Pin**



5117A

3-pin XLR rectangular panel mount male receptacle with sturdy all metal one piece design. Housing is die-cast zinc alloy with tarnish resistant nickel plating. Solder cup terminations. Front mountable.

**XLR to 1/4 in Adapters**



Model#	Type
6863	XLR (F) / 1/4 in Plug (stereo)
6864	XLR (M)/1/4 in Plug (stereo)

Adapters offers 3 contact XLR to 1/4 inch conversion. Sleek light weight design. XLR body is die cast zinc alloy with tarnish resistant nickel-plating. 1/4 inch plugs are nickel-plated machined brass. XLR contacts are nickel-plated brass.

**XLR Female Panel Receptacle, 5-Pin**



6854

5-pin XLR rectangular panel mount receptacle with sturdy all metal one piece design. Housing is die-cast zinc alloy with tarnish resistant nickel plating. Solder cup terminations. Front mountable.

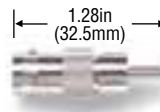
**XLR (M) Panel Receptacle, 5-Pin**



6855

5-pin XLR rectangular panel mount male receptacle with sturdy all metal one piece design. Housing is die-cast zinc alloy with tarnish resistant nickel plating. Solder cup terminations. Front mountable.

**BNC Female to Phono (RCA) Male**



Model# 5319

**Rating:** Maximum voltage for *hands free use*: 500 Vrms, 216°F (+102°C) max.

**BNC:** *Center Contact*: gold-plated.

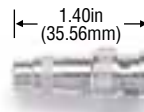
**XLR Female, 4-Pin, Rectangular Flanged Panel Mount**



7107

4-pin XLR rectangular panel mount receptacle with sturdy all metal one piece design. Housing is die-cast zinc alloy with tarnish resistant nickel plating. Solder cup terminations. Front mountable.

**BNC Male to Phono Jack**



Model# 4054

**Rating:** Maximum voltage for *hands free use*: 500 Vrms, +257°F (+125°C) max.



**XLR Female 3-Pin, Rectangular Flanged Panel Mount**

7108

3-pin XLR rectangular panel mount receptacle with sturdy all metal one piece design. Housing is die-cast zinc alloy with tarnish resistant black nickel plating. Solder cup terminations. Front mountable.



**BNC Female to 1/4in (6.35mm) Phone Plug**

Model# 1297

**Rating:** Maximum voltage for *hands free use*: 500 Vrms, +257°F (+125°C) max.

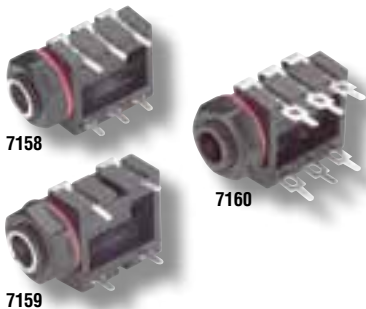
Convert 2 conductor audio jacks to BNC.



**1/4 in, PC Board Mount Phone Jacks**

Model#	Type
7158	PC board mount, 3-conductor
7159	PC board mount, 2-conductor
7160	PC board mount, 3-conductor

PC board mounts for connection with standard commercial phone plugs. Solderable with nickel silver contacts.

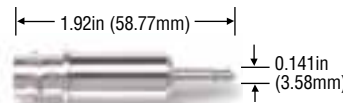


**BNC Female to Two Conductor, 0.14in (3.5mm) Dia. Mini Phone Plug**

Model# 3837

**Rating:** Maximum voltage for *hands free use*: 500 Vrms, +257°F (+125°C) max.

Convert 2 conductor audio jacks to BNC.



**1/4 in, Panel Mount Phone Jacks**

Model#	Type
7156	2-conductor
7157	3-conductor

Designed for insulated panel mount with low internal contact resistance. Body is diecast zinc alloy with tarnish resistant nickel plating. Hardware includes one copper alloy nickel-plated hex nut, and one steel nickel-plated washer.



**Right-Angle and Straight 1/4 in. Standard Phone Plugs**

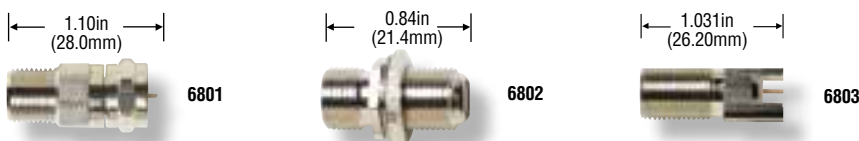
Model#	Description	Shell	Contacts	Lbs of Pull
6873	1/4 in. Phone Plug, 2 Pole	Black Nickel	Gold	45
6874	1/4 in. Phone Plug, 3 Pole	Black Nickel	Gold	45
7142	Straight 3-Conductor Balanced 1/4 in. Std. Phone Plug (Stereo)	Nickel	Nickel	45
7150	Shielded 2-Conductor 1/4 in. Phone Plug, Long Handle	Nickel	Nickel	45
7151	Right-Angle 2-Conductor 1/4 in. Plug (Mono)	Nickel	Nickel	45
7152	Shielded 3-Conductor Balanced 1/4 in. Phone Plug (Stereo)	Nickel	Nickel	45



**F Adapters and PCB Mount Connector**

Model#	Description
6801	F (M/F) In-Line adapter
6802	F (F/F) Bulkhead adapter
6803	F (F) PCB mount connector

**Material:** These 75 Ω connectors are designed for fast installation with no crimping. Connectors are precision machined brass with nickel plating and gold plated center contacts.



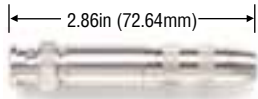
\*see rating message at start of section.

**BNC Male to 1/4in (6.35mm) Two Conductor Phone Jack**

Model# 4043

**Rating:** Maximum voltage for *hands free use*: 500 Vrms, +257°F (+125°C) max.

Convert 2 conductor phone plugs to BNC.



**1/4 in Plug/RCA Jack**

6878

Two pole mono-to-mono adapters in easy-to-use configurations. Contacts are nickel-plated brass.



**F Female to Female Bulkhead Receptacle**

Model# 6706

In line, with nut and washer

**Material:** Machined, nickel-plated brass.



**RCA (phono) Jack**

6880

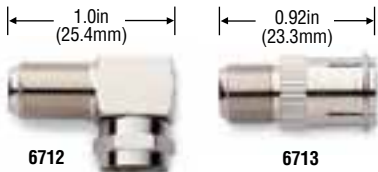
Sleek silver and gold compact design. Handles up to 6.0 mm (0.24 in) O.D. cable. Body is made of die cast zinc alloy with tarnish resistant nickel-plating. Contacts are gold-plated brass.



**F Within Series Adapters**

Model#	Type
6712	F (m/f) Right angle
6713	F (m/f) In line, Push-on

**Material:** Machined, nickel-plated brass



**RCA (phono) Plug**

6881

Sleek silver and gold compact design. Handles up to 6.0 mm (0.24 in) O.D. cable. Body is made of die cast zinc alloy with tarnish resistant nickel-plating. Contacts are gold-plated brass.

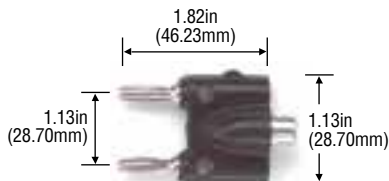


**Phono Jack to Double Stacking Banana Plug**

Model# 1442

**Rating:** Maximum voltage for *hands free use*: 500 Vdc, +122°F (+50°C) max.

Permits phono plug to be used with equipment having standard banana jacks or binding posts.



**RCA (phono) Adapter (F/M/F)**

6882

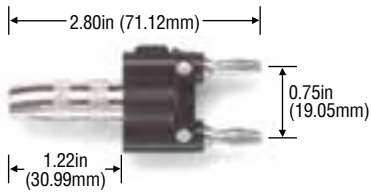
One plug and two jack configuration with compact design. Contacts are gold-plated brass for low contact resistance.



**1/4in (6.35mm) Phone Jack to Double Stacking Banana Plug**

**Model# 4044**

**Rating:** Maximum voltage for *hands free use:* 500 Vrms, +122°F (+50°C) max.  
2 conductor 0.25in (6.35mm) dia. phone jack.



**1/4 in Jack/RCA Plug**

**6879**

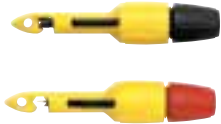
Two pole mono-to-mono adapters in easy-to-use configurations. Contacts are nickel-plated brass.



\*see rating message at start of section.

Offering a variety of test accessories designed specifically for the automotive environment, Pomona simplifies automotive diagnostics. Pomona automotive accessories give you access to wiring or cables in congested engine compartments, under-dash wiring harnesses, and other generally hard-to-reach places.

## Insulation Piercing Clip Sets



6405

Model#	Features	Colors
6405	Attach to test leads	Set of red/black
6413	Attach to 0.080in (2.03mm) Probe tip	Set of red/black

- Double V block centers wire.
- 6405, 6413: set of 2, (red and black jacks).
- Bright yellow for easy location.
- Attach to test leads.

## Rigid Backprobe Pin



Model# 6262-02

- Sharp point to pierce insulation or weather boot up to 2in (50.8mm) deep.
- For low voltage use < 30V.
- Set of 2 (red + black).
- Fits comfort-grip style and modular probes 6232A and 6479.

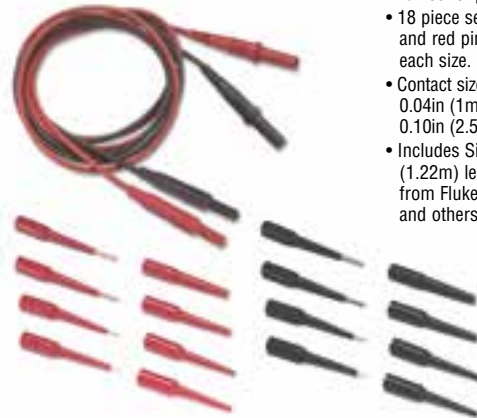
## Insulation Piercing Maxigrabber® Test Clip Set



Model# 5913

- Insulated probe for hard to reach test points.
- Set of 2, red and black.

## Test Connector Adapter Set



Model# 6481

- Full set of pin and socket adapters
- 18 piece set includes one black and red pin and socket of each size.
- Contact sizes: 0.03in (0.75mm), 0.04in (1mm), 0.06in (1.5mm), 0.10in (2.5mm).
- Includes Silicone insulated 4ft (1.22m) leads to fit most DMMs from Fluke, Amprobe, Greenlee and others.

## Test Lead Rack



Model# 4408M

- Magnetic, attach to tool box or other steel cabinet.
- Neat storage for leads.
- Easy access.

## Coaxial Lead Set Lead Set



Model# 6534

- Complete set of coaxial leads.
- Molded strain relief.
- Seven piece set from 1 to 10ft (0.3 to 3.05m).
- Standard BNC connectors fit oscilloscopes and other instruments.

## Basic Backprobe Pins



Model# 6411

- Make connection to terminals inside connectors up to 1in (25.40mm) deep.
- For low voltage use < 30V.
- Pkg of 10.

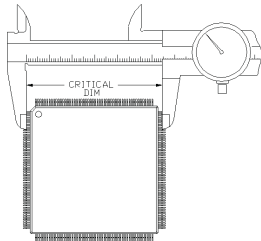


# IC Test Clips and Adapters

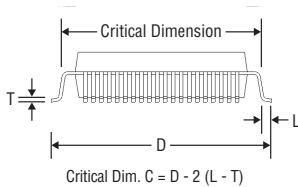
Innovative solutions. Pomona Electronics' IC Test Clips – designed for your chip. Uniquely designed for testing surface mount devices – easily, securely and successfully. Low-profile fine-pitch chips, densely populated boards, or vertical boards, POMONA test clips connect you with confidence.



## How to Measure or Calculate the Critical Dimension for Your QFP Test Clip

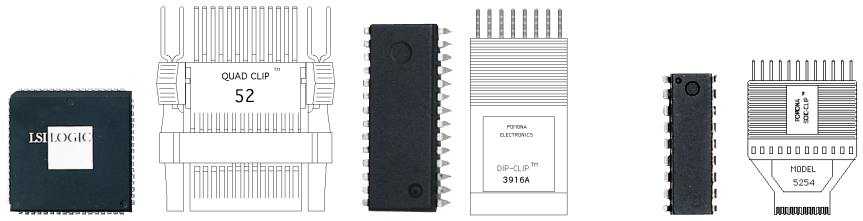


Measure Critical Dimension with calipers parallel to the plane of the PCB



## Test Clip Selection Made Easy

To select the Pomona IC Test Clip specifically designed for your chip, find the table for your chip type and follow the selection procedure outlined in this section.



### PLCC

To find your PLCC Quad Clip® test adapter, see PLCC table on page 89 and reference the following characteristics of your target chip:

1. Number Of Leads
2. Body Size

### DIP

To find your DIP test clip, see DIP table on page 90 and reference the following characteristics of your target chip:

1. Number Of Leads
2. Test Clip Contact Style (see Fig. 1 & 2, page 90)

### SOIC/SOJ

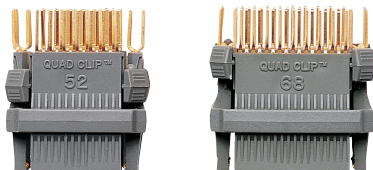
To find your SOIC Clip® test clip, see SOIC/SOJ table on page 90 and reference the following characteristics of your target chip:

1. Number Of Leads
2. Confirm Body Width Compatibility
3. For Lower and Top Test Clip Width (see Fig. 1, 2 & 3, page 90)

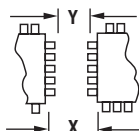
Pomona offers a wide variety of Micro-SMD Grabber® Test Clips for use in testing fine pitch PQFP devices. See SMD/Micro Format Test section for complete selection.



## PLCC Test Clips



	X Min.	Y Min.
Single Testing	0.120in (3.1mm)	0.110in (2.8mm)
Adjacent Testing	0.325 (8.3mm)	0.285 (7.2mm)



Pomona's low-cost Quad Clip® test clips quickly lock onto J-leaded PLCCs, providing easy access for testing surface-mounted devices. PLCC test clips attach to PLCC chips with a sliding cam that clamps onto the chip body. Access to chip leads is provided by 0.025in (0.635mm) pins at 0.100in (2.54mm) spacing. Pomona offers a Quad Clip® test clip to fit all currently available PLCC chip sizes.

Lead Pitch: 0.050in (1.27mm)

Model#	No. Leads	Lead Pattern	Body Size	Typical Applications
5279	20	5 X 5	0.36in X 0.36in (9.14mm x 9.14mm)	Intel 85C220
5280	28	7 X 7	0.46in X 0.46in (11.68mm x 11.68mm)	Intel 5C60, 85C224, Philips 8XC751, Raytheon TMC1173
5733	32	7 X 9	0.46in X 0.56in (11.68mm x 14.22mm)	AMD 29F040, Xicor X28TC256, Cypress CY7B991
5281	44	11 X 11	0.63in X 0.63in (16.00mm x 16.00mm)	AMD MACH110, 80C88, Siemens SAB-C501
5312	52	13 X 13	0.75in X 0.75in (19.05mm x 19.05mm)	Intel 87C196, 87C196, Motorola 68008
5401	68	17 X 17	0.95in X 0.95in (24.13mm x 24.13mm)	Intel 80C188, AMD MACH220, Hitachi H8/330
5402	84	21 X 21	1.15in X 1.15in (29.21mm x 29.21mm)	AMD MACH130, Altera EPF8452, Cirrus Logic CL16005
5515A	20-84	-	-	PLCC Clip Kit containing 1 of each size PLCC Clip

**DIP Test Clips**



Fig. 1



Fig. 2

Model#	No. Leads	Chip Width	Contact Style	Contact Material	Typical Applications	Fig.
5108	8	0.3in (7.62mm)	Closed	Gold Plate	-	1
5208	8	0.3in (7.62mm)	Open	Gold Plate	-	2
5014	14	0.3in (7.62mm)	Closed	Nickel Silver	-	1
5114	14	0.3in (7.62mm)	Open	Nickel Silver	-	2
3916A	16	0.3in (7.62mm)	Closed	Nickel Silver	Analog Devices AD7715	1
5220	20	0.3in (7.62mm)	Open	Gold Plate	-	2

Pomona DIP Test Clips provide fast, reliable and secure connections to socketed and through-hole DIP chips. Available in two styles, DIP Test Clips give you the option of full coverage of clip contacts for maximum durability or open contacts at the board level for easier access to chip leads.

**Fig. 1:** Spring-actuated clip features gold-plated beryllium copper or spring-tempered nickel silver pins to assure positive contact in a firm wiping action for hands-free testing.

**Fig. 2:** Clip features same construction as Figure 1 except for an opening on the outside of the contact housing to permit probing while the clip is attached to the DIP.

**SOIC/SOJ Test Clips**

SOIC Clip® test clips feature a narrow-profile design that makes testing SOIC and SOJ chips on densely-populated boards easier and safer.



Fig. 1



Fig. 2



Fig. 3

**Fig. 1:** Spring-loaded SOIC Clip® attaches to target chip and holds on with spring pressure against the chip body. Contacts on top of the clip are 0.025in (0.635mm) pins at 0.10in (2.54mm) spacing. Designed to attach to surface-mounted chips with either gull wing or "J" leads.

**Fig. 2:** This 14-pin clip features a slider that presses the contact housings against the chip and provides a more secure connection on surface mounted chips with gull wing or "J" leads. Compact design is ideal for testing on densely-populated boards.

**Fig. 3:** New 32-, 40- and 44-pin SOIC/SOJ test clip is a new design of the spring-loaded clip that features double-row .025 wire wrap pins for easy connection to ribbon cable. This clip will fit all SOIC/SOJ chips between 0.30in (7.62mm) and 0.60in (15.24mm) width.

Lead Pitch: 0.050in (1.27mm).

Model#	No. Leads	Lower Width (A)	Body Widths	Top Width (B)	Typical Applications	Fig.
5250	8	0.26in (6.60mm)	0.15in to 0.3in (3.81mm to 7.62mm)	0.430in (10.92mm)	Analog Devices AD834JR, Triquint TQ9122N	1
5251	14	0.410 (10.41mm)	0.15in to 0.3in (3.81mm to 7.62mm)	0.755in (19.18mm)	Motorola HCT08A, Philips 74HC125	1
5252	16	0.460 (11.68mm)	0.15in to 0.3in (3.81mm to 7.62mm)	0.830in (21.08mm)	Maxim MAX791, Microlinear ML6509, AMD 26LS31	1
5253	20	0.560 (14.22mm)	0.15in to 0.3in (3.81mm to 7.62mm)	1.030in (26.16mm)	Linear Tech. LT1130, Maxim MX7226, Motorola HCT373A	1
5254	24	0.660 (16.76mm)	0.15in to 0.3in (3.81mm to 7.62mm)	1.230in (31.24mm)	Altera EP610APC, Linear Tech. LT1130, Motorola MC22V10S	1
5437	28	0.760 (19.30mm)	0.15in to 0.3in (3.81mm to 7.62mm)	1.430in (36.32mm)	Texas Inst. SN74F32D, Altera EPM5032, Raytheon TMC1171	1
6107	32	0.870 (22.10mm)	0.30in to 0.60in (7.62mm to 15.24mm)	0.870in (22.10mm)	Toshiba TMPN3120, Hitachi HM628128, NEC D431000AGW	3
6108	40	1.070 (27.18mm)	0.30in to 0.60in (7.62mm to 15.24mm)	1.070in (27.18mm)	-	3
6109	44	1.170 (29.72mm)	0.30in to 0.60in (7.62mm to 15.24mm)	1.170in (29.72mm)	-	3
5514	-	-	-	-	SOIC Clip® Test Kit contains 1 each 8 - 28 pin clips	

# Static Control Products

Working with static sensitive devices? Pomona enables you to work with confidence when using our static control accessories. Whether you choose to purchase our selection of grounding systems or build your own ESD set-up, Pomona gives you a variety of individual accessories. Our accessories also make a perfect addition to our Test Companion Kits.

## Large Service Kit



**Model# 6088**

Provides a larger working area than Model 6087. This kit provides a static-safe 24in x 24in (609.6mm x 609.6mm) laminated red vinyl mat. The mat includes a 10mm snap socket and two 8in x 1 1in (203.2mm x 279.4mm) pockets. Carry those often used tools right with the mat. A common point ground connector with two Banana Plug Jacks and a 15ft (4.5m) ground lead. An adjustable elastic wrist strap and a resistive coil cord complete the kit. Folds down to fit into your tool box.

## Adjustable Elastic Wrist Strap Kit



**Model# 6082**

A complete wrist strap kit features adjustable elastic wrist strap. Also included: Resistive Coil Cord (1M $\Omega$  resistor molded in) extendable to 6ft (1.8m) with a Straight Banana Plug and Alligator Clip.

## Field Service Kit



**Model# 6087**

A complete and durable service kit for static sensitive work. Features a static-safe 18in x 22in (460mm x 558.8mm) laminated red vinyl mat. The kit includes a mat with two 0.39in (10mm) snap sockets, common point ground connector with two Banana Plug Jacks and a 15ft (4.5m) ground lead, an adjustable elastic wrist strap and a resistive coil cord. Folds down to fit into your tool kit.

**Model# 6088 and 6087**

**Mat Color:** Red.

**Thickness:** 0.018in (0.46mm).

**Surface Resistivity:** 108 to 109 $\Omega$  / Sq.

**Volume Resistivity:** 109 $\Omega$  cm.

**Static Decay:** 0.01sec 5000V to 0V  
12%RH.

## Wrist Strap Tester



**Model# 6086**

Test any wrist strap connected to utility ground with a simple touch. The tester has two Banana Plug Sockets for Wrist Strap cord attachments. Once connected, the user simply touches the unit and a green light and audible sound indicate a proper ground. (Audible indicator has selectable on or off).

The tester can be mounted near your work area with Velcro® strips (supplied) or, using an integral button 10mm snap stud, attached directly to your static-safe work mat. Powered by a 120 VAC wall adapter (supplied), the tester has a "Power on" indicator. It is practical for both a quick test or as a continuous ground point connection. UL listed.

Touch Type On-Demand Tester and Common Point Ground.

## Adjustable Metal Wrist Strap Kit



**Model# 6084**

Complete wrist strap kit features the adjustable metal wrist strap. Also included: Resistive Coil Cord (1M $\Omega$  resistor molded in) extendable to 6ft (1.8m) with a Straight Banana Plug and Alligator Clip.

## Wrist Straps



Model#		Circumference – Min.
6083	Adjustable	5.5in (139mm) 13in (330.2mm)
5529	Medium Expand	6.5in (165mm) 12in (304mm)

Made of non-allergenic stainless steel, each link has a 0.08in (2mm) PVF film laminated on top for electrical insulation. Quick and easy adjustment without tools, the wrist strap will fit most users. A standard 0.16in (4mm) snap stud allows attachment to resistive coil cords.

**Material:** Band: Stainless steel / PVF Insulation.

**Cover:** Thermoplastic.

**Wrist Circumference:** 5.5in to 13.0in  
(139.7mm x 330.2mm).

**Width:** 0.63in (16.0mm).



**Ring Terminal**

**Model# 5531**

Attach this terminal to table or cabinet to create a banana jack for grounding wrist strap. Screw hole accepts up to #10 screw.



**Adjustable Elastic Wrist Strap**

**Model# 6081**

An adjustable, one size fits all, wrist strap. The wristband features a dual stainless steel cam that securely locks the plastic band, but allows easy adjustment without tools. The washable fabric band has silver impregnated nylon threads knitted into its inner surfaces. Only non-allergenic stainless steel and silver touch the skin. Standard 4mm snap stud allows attachment to resistive coil cords (Pomona models 5534 and 6085). Wrist circumference: 2.5in (64mm) to 13in (330mm).(183cm).



**Stacking Snap Banana Jack**

**Model# 5532**

Attach this jack to either banana snap stud (male) or banana snap socket (female). It allows multiple attachment to the same grounding point. Snap is 3/8in (9.52mm).

**Material:** High conductivity copper with tin plated finish.



**Antistatic Ground Cord**

**Model# 5534**

This patch cord features a molded-in 1 Megohm resistor at the snap end. The 5534 has a straight banana plug. Nominal extended length is 72in (183cm).





# Telecom Products

Accuracy and repeatability – Pomona connects to the telecom industry with an impressive selection of test accessories. Ideal for network testing, troubleshooting, leave-in-the-line patching, or system prototyping, Pomona Electronics' traditional reliability adds up to the quality connection telecom professionals demand.

## Universal DSX-3 Test Kit



**Model# 6568**

- Ideal for OSP/CO technicians.
- Kit reduces the need for multiple cables to service and test DSX-3 panels.
- Adapters quickly convert BNC cables to Mini or Standard WECO interfaces.
- Cables are color coded blue (transmit) and red (receive) for ease of testing.
- Strain reliefs are molded directly to the cable and BNC plugs for added pull strength.
- Test Companion pouch allows for convenient accessory storage.

**Kit includes:**

- One blue BNC Male Cable Assembly
- One red BNC Male Cable Assembly
- Four Standard WECO to BNC Adapters
- Four Mini-WECO to BNC Adapters
- Test Companion Shoulder Pack

## True 75Ω BNC Male Cable



Model#	Length
6510-V-12-0	12in (0.3m)
6510-V-24-0	24in (0.6m)
6510-V-36-0	36in (0.9m)
6510-V-48-0	48in (1.2m)
6510-V-60-0	60in(1.5m)
6510-V-72-0	72in (1.8m)

BNC connectors are perfectly matched to 75Ω impedance for superior VSWR and return loss performance.

Ideal for digital video and telecommunication applications.

**Cable Type:** High Flex, Multi-strand center conductor, RG59 Type, Black.

## True 75Ω BNC Cable (Transmit/Receive)



Model#	Length	Color
6510-V-72-2	72in (1.8m)	Red
6510-V-72-6	72in (1.8m)	Blue

Cable and Strain Relief are color coded red and blue for easy identification of transmit and receive lines.

**Cable Type:** High Flex, Multi-strand center conductor, RG59 Type.

## BNC Male to Bantam Plug Cable



Model#	Length
6517-96	96in (2.4m)

**Cable Type:** RG59 Type.  
**Bantam:** Nickel-plated brass.

**BNC Female to WE309/  
WE310 Plug Adapters**



Model#	Plug Type
2798	WE310
1794	WE309

**Rating:** Maximum voltage for *hands free use*: 500V Peak, +122°F (+50°) max.

**BNC Female to Bantam  
Plug Adapters**



Model#	4719
4719	

**Rating:** Maximum voltage for *hands free use*: 500V Peak, +122°F (+50°) max.

Convert Bantam style jacks to BNC.

**75Ω BNC Male to Mini-WECO  
(440) Connector Cable**



Model#	Length
6515-96	96in (2.4m)

**Cable Type:** RG59 Type.

**75Ω BNC Male to Standard  
WECO (WE090) Connector  
Cable**



Model#	Length
6516-96	96in (2.4m)

**Cable Type:** RG59 Type.

**Mini-WECO (440) Plug  
Patch Cord**



Model#	Length
6502-96	96in (2.4m)

**Cable Type:** RG59 Type.

**BNC Female to Mini/Standard  
WECO Plug Adapters**



Model#	Plug Type
6519	Mini WECO (440)
5008	Std. WECO (WE090)

Permits BNC male to be used with equipment having Std. WECO or Mini WECO plugs.

**Rating:** Maximum voltage for *hands free use*: 500 Vrms, +216°F (+102°C) max.

**Bantam Plug Patch Cord**



Model#	Length
4279-12	12in (0.3m)
4279-24	24in (0.6m)
4279-36	36in (0.9m)
4279-48	48in (1.2m)
4279-60	60in (1.5m)
4279-72	72in (1.8m)

**Bantam Plug:**  
4279: Unplated brass.  
4279N: Nickel-plated brass.

**Rating:** Maximum voltage for *hands free use*: 300 Vrms; 300 Vrms\*, +122°F (+50°C) max.

**Cable Type:** 2 Conductor Shielded Twisted Pair, 0.180in (4.57mm) O.D.

**Bantam Plug to Two  
Alligator Clips**



Model#	Length
5026-36	36in (0.9m)
5026-60	60in (1.5m)
5026N-60	60in (1.5m)

**Bantam Plug:**  
5026: Unplated brass.  
5026N: Nickel-plated brass.

**Rating:** Maximum voltage for *hands free use*: 150 Vrms, +122°F (+50°C) max.

**Cable Type:** 2 Conductor Shielded Microphone, 0.180in (4.57) O.D.

**Bantam Plug to Minigrabber®  
Test Clips**



Model#	Length
5019-60	60in (1.5m)
5019N-60	60in (1.5m)

**Bantam Plug:**  
5019: Unplated brass.  
5019N: Nickel-plated brass.

**Rating:** Maximum voltage for *hands free use*: 300 Vrms, +122°F (+50°C) max.

**Cable Type:** 2 Conductor Shielded cable, 0.180in (4.57) O.D.

**Bantam Plug to Double Banana Plug**



Model#	Length
6523-96	96in (2.4m)

**Bantam Plug:** Nickel-plated brass.  
**Cable Type:** RG59 Type.

**Bantam Plug to RJ48/RJ45 Connector Cable**



Model#	Length
6324-96	96in (2.4m)

**Bantam Plug:** Nickel-plated brass.  
**Rating:** Maximum voltage for *hands free use*: 300 Vrms.  
**Cable Type:** 2 Conductor Shielded Twisted Pair.  
**Pin Out:** 4-Ring, 5-Tip.

**Bantam Plug to Micrograbber® Test Clips**



Model#	Length
4778-60	60in (1.5m)

**Bantam Plug:** Unplated brass.  
**Rating:** Maximum voltage for *hands free use*: 150 Vrms\*, +122°F (+50°C) max.  
**Cable Type:** 2 Conductor Shielded cable, 0.180in (4.57mm) O.D.

**Two Single Bantam Plugs to RJ48/RJ45 Connectors**



Model#	Length
6320-96	96in (2.4m)

**Bantam Plug:** Nickel-plated brass.  
**Rating:** Maximum voltage for *hands free use*: 300 Vrms.  
**Cable Type:** 2 and 4 Conductor Shielded Twisted Pair. Bantam "Y" (Tx and Rx) to RJ48 modular plug.  
**Pin out:** 1-Ring, 2-Tip, 4-Ring, 5-Tip.

**Bantam Plug to Double Banana Plug, Balanced Line**



Model#	Length
4281-60	60in (1.5m)

**Bantam Plug:** Unplated brass.  
**Rating:** Maximum voltage for *hands free use*: 500V Peak, +131°F (+55°C) max.  
**Cable Type:** 2 Conductor Shielded Microphone, 0.180in (4.57mm) O.D.

**Bantam Plug to WE310 Plug Patch Cable**



Model#	Length
4280N-36	36in (0.9m)
4280-48	48in (1.2m)
4280-60	60in (1.5m)

**WE310 and Bantam Plugs:**  
4280: Unplated brass.  
4280N: Nickel-plated brass  
**Rating:** Maximum voltage for *hands free use*: 300 Vrms., +122°F (+50°C) max.  
**Cable Type:** 2 Conductor Shielded Twisted Pair, 0.180in (4.57mm) O.D.

**Bantam Plug to RJ11 Connector Cable**



Model#	Length
6323-96	96in (2.4m)

**Bantam Plug:** Nickel-plated brass.  
**Rating:** Maximum voltage for *hands free use*: 300 Vrms..  
**Cable Type:** 2 Conductor Shielded Twisted Pair.  
**Pin out:** 3-Ring, 4-Tip

**Bantam (Female) to WE310 Plug Adapter**



Model#	Plating
4993	Unplated
6315	Nickel

**Plug Body:** Brass.  
3 Conductor adapter. Converts bantam cable into a WE310 plug-end patch cable.

\*see rating message at start of section.

**Dual Bantam Plug Patch Cable**

Model#	Length
6331-96	96in (2.4m)



**Bantam Plugs:** Nickel-plated brass.  
**Rating:** Maximum voltage for *hands free use*: 300 Vrms.  
**Cable Type:** 4 Conductor Shielded Twisted Pair.

**Bantam or WE310 Plug to Binding Post**

Model#	Plug Type
2112	WE310
5001	Bantam



**Rating:** Maximum voltage for *hands free use*: 500V Peak, +122°F (+50°C) max.  
Adapts Bantam or WE310 style equipment to binding posts and double banana plugs.

**WE310 Plug to Double Banana Plug Cable**

Model#	Length
6524-96	96in (2.4m)



**Cable Type:** RG59.

**WE310 Plug to Two Alligator Clips**

Model#	Length
3352-A-60	60in (1.5m)
3352N-A-60	60in (1.5m)



**WE310 Plug:**  
3352: Unplated brass.  
3352N: Nickel-plated brass.  
**Rating:** Maximum voltage for *hands free use*: 150 Vrms., +122°F (+50°C) max.  
**Cable Type:** 2 Conductor Twisted Pair, 0.250in (6.35mm) O.D.

**Two Single WE310 Plugs to RJ48/RJ45 Plug**

Model#	Length
6316-96	96in (2.4m)



**WE310 Plug:**  
3352: Unplated brass.  
3352N: Nickel-plated brass.  
**Rating:** Maximum voltage for *hands free use*: 150 Vrms., +122°F (+50°C) max.  
**Cable Type:** 2 Conductor Twisted Pair, 0.250in (6.35mm) O.D.

**Piercing Clips to Sheathed Banana Test Leads**

Model#	Clip Type	Length
6483-48-*	Bed of Nails and Single Needle	48in (1.2m)
6485-48-*	Bed of Nails	48in (1.2m)

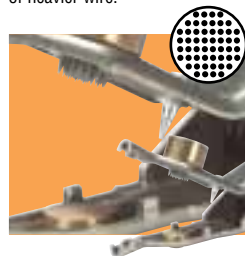


Pierces 19 to 26 AWG Wire.  
**Wire:** 18 AWG Silicone Test Lead Wire.  
For use with DMM's from Fluke, Wavetek (Meterman), Amprobe, Greenlee and others.  
**\*Colors:** -0 Black, -2 Red, -02 includes both Black and Red.

**Piercing Clip Styles for Test Leads and Patch Cords**

**Bed of Nails/Single Needle**  
Small wire and single penetration of heavier wire.

**Bed of Nails**  
Small wire penetration.



**Piercing Clips to Bantam Plugs Patch Cord**

Model#	Clip Type	Length
6484-60	Bed of Nails and Single Needle	60in (1.52m)
6486-60	Bed of Nails	60in (1.52m)



**Cable:** Two Conductor Twisted Pair.  
**Breakout Wire:** 18 AWG.



**BNC Female to WE310 Phone Plug**

Model# 2798

Rating: Maximum voltage for *hands free use*: 500V Peak, +122°F (+50°C) max.



**BNC Female to Mini-WECO (440) Plug Adapter**

Model# 6519

Rating: Maximum voltage for *hands free use*: 500V Peak, +216°F (+102°C) max.

Permits BNC male to be used with equipment having mini-WECO jacks. Video plug equivalent to WE-090.



**BNC Female to Bantam Phone Plug**

Model# 4719

Rating: Maximum voltage for *hands free use*: 500V Peak, +122°F (+50°C) max.

Convert Bantam style jacks to BNC.



**BNC Female to Standard WECO (WE090) Plug Adapter**

Model# 5008

Rating: Maximum voltage for *hands free use*: 500V Peak, +216°F (+102°C) max.

Permits BNC male to be used with equipment having standard WECO jacks.

Video plug equivalent to WE-090.



**Bantam Phone Jack to WE310 Phone Plug**

Model# 4993

Rating: Maximum voltage for *hands free use*: 500V Peak.

Use cords with Bantam style plugs on equipment with WE-310 jacks.



**BNC Female to WE309 Phone Plug**

Model# 1794

Rating: Maximum voltage for *hands free use*: 500V Peak, +122°F (+50°C) max.

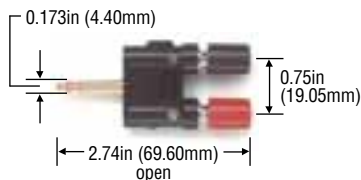


**Stackable Binding Posts to Bantam Phone Plug**

Model# 5001

Rating: Maximum voltage for *hands free use*: 500V Peak, +122°F (+50°C) max.

Adapts Bantam style equipment to binding posts and double banana plugs.



**Stackable Binding Posts to WE310 Phone Plug**

Model# 2112

Rating: Maximum voltage for *hands free use*: 500V Peak, +122°F (+50°C) max.



\*see rating message at start of section.