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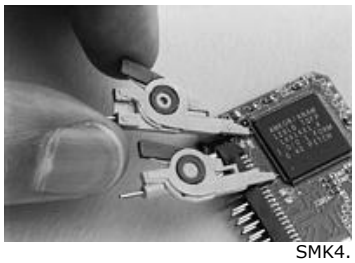
Find the *Tektronix SMG50* at our website: ***Click HERE***

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SMK4.

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Surface Mount Device Interconnects

SMK4 • SMG50 • SureFoot® • ST501 •

FEATURES & BENEFITS

Micro KlipChip™ Adapter SMK4

- Hand Probe Fine-pitch SMD Package
  - 25 mil JEDEC
  - 0.65 mm EIAJ
  - 0.5 mm EIAJ
- Thin Clip Body Width Allows Many PQFP Clips to Be Mounted Side-by-side and Simultaneously Tested

SureFoot Adapters SF200A and SF500 Series

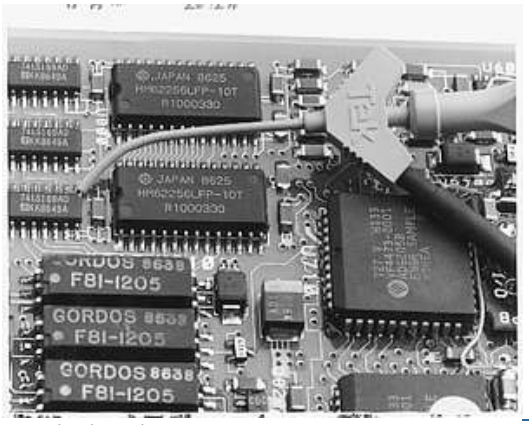
- Hand Probe Fine-pitch SMD Packages
  - 25 mil JEDEC
  - 0.65 mm EIAJ
  - 0.5 mm EIAJ
- SF500 Series for P6561A, P6562A, P6563A, P6240, P6243, P6245, P6209, P6249 and P7240.
- SF200A Series for P613X Family (3.5 mm) (P6133 Opt. 25, P6134C, P6136 Opt. 25, P6137, P6135A, P6138A, P6139A, P6158, P6339A, P5050.)

SMG50 KlipChip Adapter

- Access to 0.050 in. Centers PLCC, SOIC and Other Packages

APPLICATIONS

- Research and Design
- Manufacturing Test of SMD Circuitry
- Servicing of SMD Circuitry
- Prototype Debug and Design



SMT KlipChip Adapter.

Surface Mount Device Probing and Interconnects

The increasing use of surface mount technology (SMT) brings many benefits to electronic circuit board (ECB) design and manufacture. Among these are increased circuit density, increased product reliability and lower assembly costs.

Troubleshooting and device interconnection, however, have become more difficult due to decreased device size, tighter lead spacing and increased ECB densities. Tektronix' offering of the following SMT probing and interconnect devices meets these demanding requirements.

SMK4 Micro KlipChip Adapter

The SMK4 is an interface device which can attach to fine-pitch IC leads similar to the SMG50. The difference between the SMK4 and the SMG50 is the size. The SMK4 can be used to attach to PQFP packages up to a pitch of 0.5 mm which is five times smaller than the SMG50.

The kit of four 0.5 mm SMK4 Micro KlipChip Adapters are for use as probe tip accessory replacements with the P6247/P6246 and as a recommended accessory for the probes listed below, which can attach to the SMK4 0.025 in. lead.

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SMG50 KlipChip Adapter

The SMG KlipChip adapter is an interface device for attachment of logic and analog probes to today's SMDs, DIPs and discrete components. The SMT KlipChip adapter is capable of attaching to components with maximum lead diameters of 0.095 inches and stackable on lead centers of 0.050 inches. Dual sided 0.025 inch lead contacts allow this grabber to be used in multiple signal insertion/acquisition.

Available as package of 20 (SMG50) or singularly (206-0364-01).



SureToe Adapter (ST501).



SureFoot SF Series.

SureFoot Adapter

Probing 25 mil JEDEC, 0.65 and 0.5 mm EIAJ Packages

The SureFoot adapter is an integral probe tip and miniature guide that enables fault-free "hands-on" probing of fine-pitch SMD packages. Guided by the IC's leads, the SureFoot adapter's miniature plastic tines align the probe before electrical contact is made. The tines also form a shield between IC leads, preventing the probe tip from shorting adjacent pins.

The SureFoot adapter conforms to EIAJ (Electronic Industry Association of Japan) or JEDEC (Joint Electron Device Engineering Council) packaging standards, assuring quick and reliable probe contact with fine-pitch IC leads.

Several color coded versions of the SureFoot adapter are available, addressing the most common SMD packages. The yellow version fits the 50 mil (JEDEC) center packages. The blue version fits both the 25 mil (JEDEC) and the .65 mm (EIAJ) center packages. Finally, the red versions fit the tighter, 0.5 mm (EIAJ) center packages.

ST501 SureToe™ Adapter

For 0.010 in. spacing

Insulated SureToe Adapter protects adjacent legs. Allowing signal acquisition of its neighbor.

SureFoot Adapter Selection Guide

Package Lead Spacing	Package Standard	Color Code	3.5 mm (Compact) (P613X)	Active SMD Probes P6243/P6245/P6249 P6209/P7240	SMD Probes P6561A/2A/3A
50 mil	JEDEC	Yellow	SF201A	SF501	SF501
25 mil	JEDEC	Blue	SF202A	SF502	SF502
0.65 mm	EIAJ	Blue	SF202A	SF502	SF502
0.5 mm	EIAJ	Red	SF203A	SF503	SF503
0.010 in.	JEDEC/EIAJ			ST501	ST501

SMK4 Use Guide

SMK4 Direct Connection	Used with Probe
Direct Connection to Probe Head	P6561A, P6562A, P6563A, P6243, P6245, P6249, P7240
196-3268-01 Ground Lead with 0.025 in. Receptacle	P6561A, P6562A, P6563A
196-3302-00 6 in. Receptacle Ground Lead	P6131, P6133, P6133 Opt. 25, P6136, 6136 Opt. 25, P6138A, P6139A

196-3305-00 6 in. Receptacle Ground Lead	P6131, P6133, P6133 Opt. 25, P6134, P6134C
196-3382-00 3 in. Receptacle Ground Lead	P6131, P6133, P6133 Opt. 25, P6134, P6134C
196-3465-00 3 in. Ground Lead	P7330/P6330, P6248, P6247, P6246
103-0177-01 Flexible Tip	P61XXB, P6202A, P6204, P6205
206-0193-00 Flex Tip for 0.025 in. Square Pin	P61XXB, P6202A, P6204, P6205
015-0325-00 Dual Lead Adapter	P61XXB, P6202A, P6204, P6205
020-2008-00 Y-lead Adapter	P6240
196-3434-00 Y-lead Adapter	P6330/P7330, P6246, P6247, P6248

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CE Marking Not Applicable.

› **Introduction**
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