

STAX LD Connector Test Kit

04/06 3-1773443-1

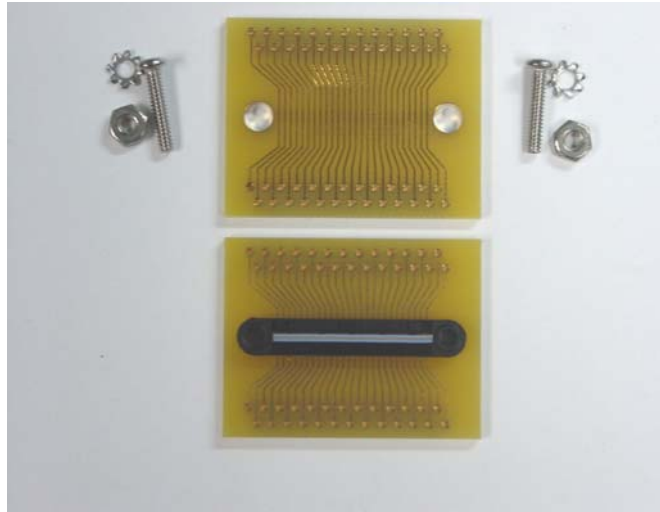
DESCRIPTION

The STAX LD elastomeric connector technology represents the culmination of over 25 years of experience in manufacturing and developing low resistance layered elastomeric connectors. STAX LD connectors provide the best combination of electrical performance, reliability and durability of any type of elastomeric connector on the market.

STAX connectors consist of alternating layers of conductive and non-conductive silicone. These layers are typically 0.064mm thick on 0.127mm centers and make redundant surface-to-surface connection when deflected between two mated PC Boards with mirror-image pad patterns.

Hundreds of millions of our STAX family of connectors have been used to connect printed circuit boards, flex circuits, Chip-On-Glass LCD modules and components within space-constrained products such as mobile phones, pagers, PDAs and disk drives.

In order for prospective users to see for themselves how well STAX LD connectors perform, we have STAX LD test kits available. The kit contains the same STAX LD elastomer, PCBs, holder, and hardware used in our qualification testing.



KEY FEATURES

- Good overall performance as compared to any elastomeric connector in the industry.
- Deflection force < 1 Newton/mm² at 15% deflection.
- Long term reliability and durability
- Economical
- Readily customized
- Little or no tooling required
- Custom prototype samples within 2 weeks.

FOR MORE INFORMATION

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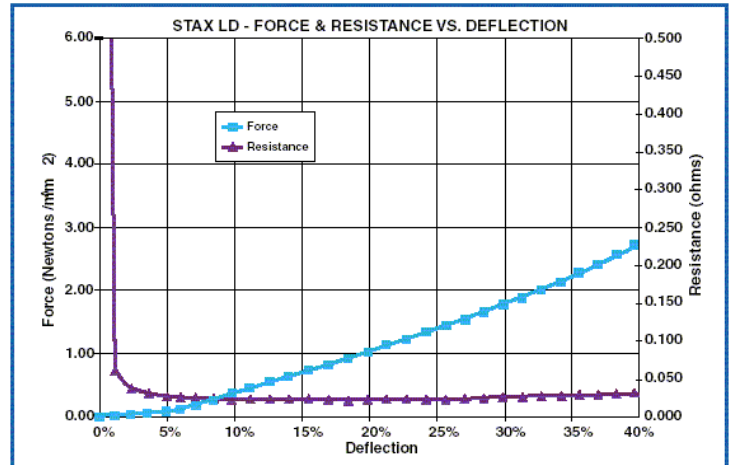
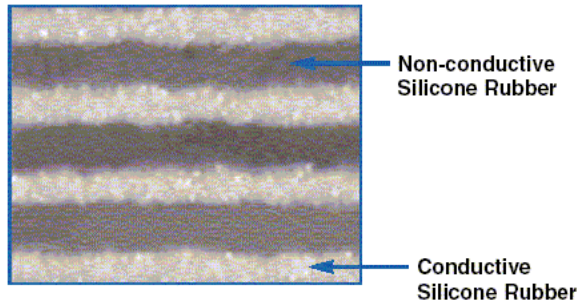
STAX LD Connector

PART NUMBER

Part Number: 3-1773443-2 STAX LD Connector Test Kit

PHYSICAL PROPERTIES

| | |
|------------------------|------------------|
| Board separation | 2.54mm (0.100") |
| Minimum Pad Pitch | 0.50mm (.020") |
| Conductor Width | 0.064mm (.0025") |
| Conductor Pitch | 0.127mm (.005") |
| Typical Clamping Force | See Chart |



Values are based on a STAX LD connector 2.9mm high, 26.42mm long, with a conductor width of 1.19mm. Contact to gold pads 0.5mm wide on 1.0mm centers.
NOTE: LOWER DEFLECTION FORCES CAN BE OBTAINED WITH THINNER WIDTH OF STAX STRIP.

TYPICAL ELECTRICAL PROPERTIES

| | |
|--|--|
| Contact Resistance ¹ | 35mΩ |
| Dielectric Constant | 3.1 |
| Insulation Resistance ¹ | 10 ¹² Ω min |
| Dielectric Withstanding Voltage ¹ | 1000 Volts without breakdown or arcing |
| Current Carrying Capacity ¹ | 1 A |

1. Test elastomer – 1.00mm (0.039") wide x 2.9mm (0.114") tall.

Test Boards – Au plated contact pads 0.50mm (0.020") wide on 1.00mm (0.039") pitch.

ENVIRONMENTAL PARAMETERS

| | |
|-----------------------|-----------------|
| Operating Temperature | -40°C to +125°C |
| Moisture | 0 to 100% RH |

TECHNICAL DOCUMENTS

- Qualification Test Report 3-1773443-3

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