

TF10/TF15 – KELVIN TEST FIXTURES

Fixturing



The TF10 and TF15 are low cost four terminal Kelvin test fixtures for high precision reliable connection to through hole devices. They are ideally suited for medium/low volume relay production test.

Key Features

- Turn key solution for RT290 and Reflex users
- Low cost kit versions available
- Kelvin connection down to 0.1" pitch. Two socket sizes available according to device pin dimensions
- Handle a wide range of through-hole mounted devices
- Compact, all metal construction - excellent electrical screening characteristics
- High quality switches and LED indicators for low maintenance
- Reversible base for left or right hand cable entry
- Reversible top allowing indicators and switches to be mounted on left or right hand side according to user preference
- Device sockets made to customer specified footprint dimensions

Overview

The low cost TF10 and TF15 fixtures are available in kit or ready made form. The Kelvin socket footprint is manufactured according to customer specification at time of ordering. Local Pass/Fail indication and Test and Retest switches are provided for ease of use. The top and / or base can be reversed to swap between left and right handed operation. Non slip feet and an all metal construction provide an electrically screened and sturdy environment.

Fixture Check

ART parametric test equipment incorporates a fixture (socket) check which confirms the integrity of the Kelvin device connections. This ensures that the testing does not commence until the device is correctly inserted into the test fixture and that all connections are made.

	TF10	TF15
Max device footprint area	48 x 30mm (1.9" x 1.2")	100 x 56 mm (3.9" x 2.2")
Max pin diameter	1 mm (0.04")	1 mm (0.04")
Min pin spacing	2.5 mm (0.1")	2.5 mm (0.1")
Overall dims WxDxH (mm)	155x106x47 (6.1"x4.2"x1.9")	205x131x47 (8"x5.2"x1.9")
Weight	1 kg (2 lbs)	1.2 kg (2.6 lbs)

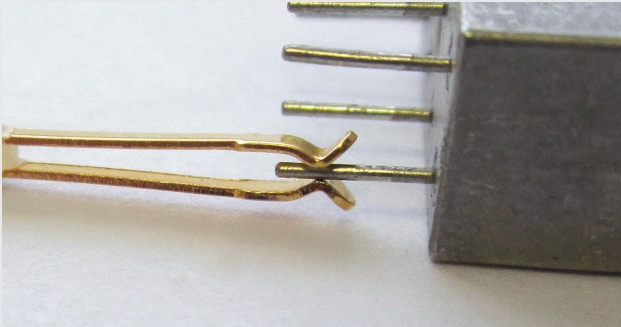
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Product Features

Device connections

High quality gold plated Kelvin socket pins are used to provide a fully 4 terminal device connection up to 10 Amps. The kelvin sockets are available in small or large sizes to best suit the device pins. Where space is limited or when a simple connection to a metal device case is required, gold plated spring probes may be specified.



Kelvin device pins

Custom solutions

Kelvin sockets can be manufactured to meet a wide variety of device footprints and can be configured to test through-hole devices down to 0.1" pin spacing. A sample device may be required at time of order. Alternatively the plain socket and Kelvin pins can be provided as a kit of parts for machining by the user.

Kit and fully assembled options

The fixtures can be supplied as piece parts for the lowest cost option. All components provided and wiring documented for easy assembly.

Indicators and switches

Two indicators are provided to show PASS / FAIL status. The TEST and RE-TEST switches are also illuminated to indicate system idle / busy status.

Low maintenance

High quality switches and sturdy all-steel construction ensure maximum durability. All indicators use LEDs for high MTBF. Rubber feet prevent damage to work surface and reduce slipping.

Interchangeable legends

A simple cover plate retains a legend which can be customised, for example, to indicate device type and polarisation. The indicator and switch legends can also be changed for alternative languages or functionality.

Compatibility

The TF10 and TF15 are compatible with ART's the full range of parametric relay test systems.

Mapping adaptors

Mapping adaptor cables may be supplied when testing multiple parts sharing the same footprint but with different pin configurations.

Signal quality

The earth bonded all-steel construction provides a high level of screening. Additionally all parametric signals are fully screened to optimise signal quality in electrically noisy environments.

Flexible cable entry

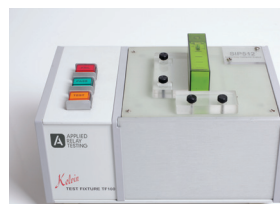
The cable entry grommet is designed to work over a large range of cable diameters.

Ergonomic design

Fully adjustable for left or right handed use. The standard build has the switches to the left of the device socket, please specify if non standard assembly is required.



Example TF15



See also:
TF100 Pneumatically
operated zero insertion force
test fixture