

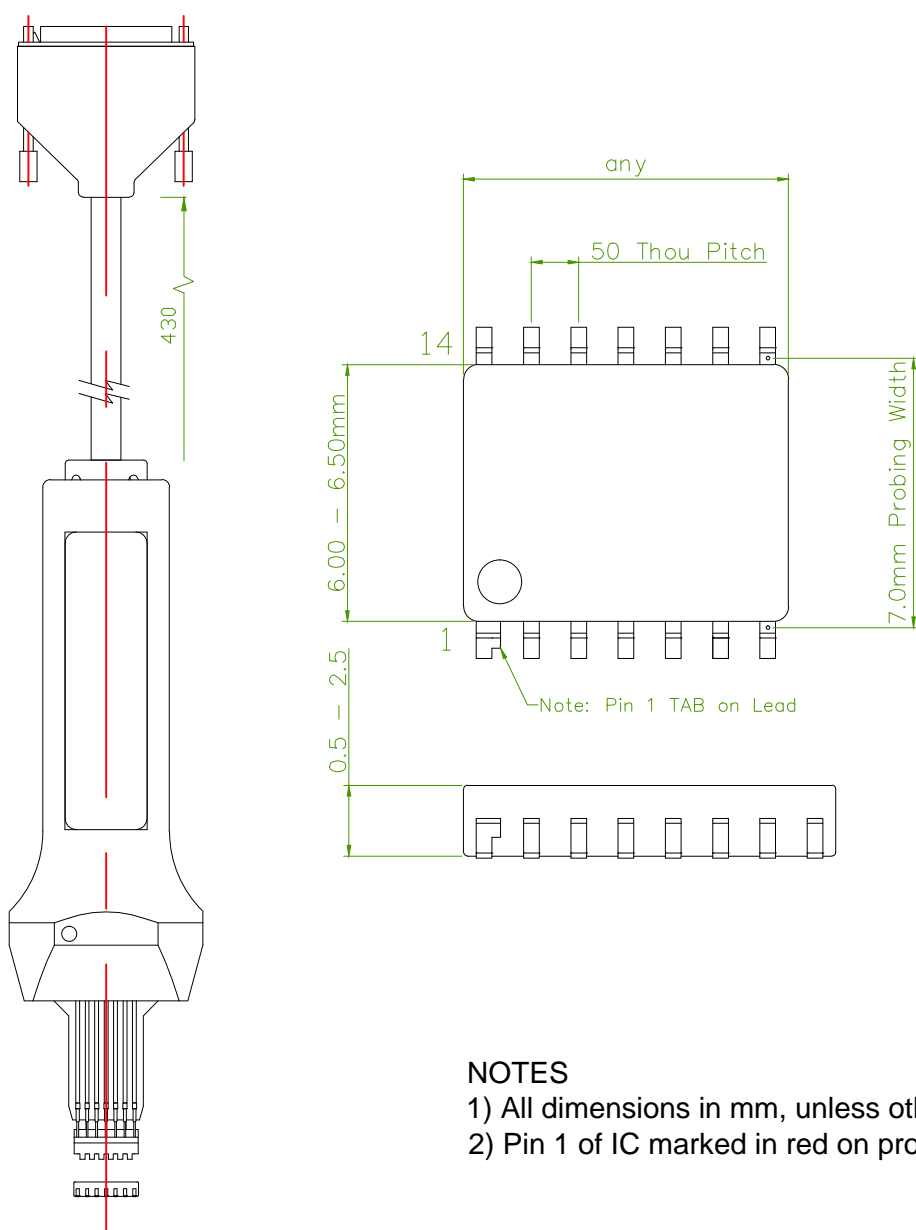
## Introduction

This Test Interface is a hand held test clip, designed to probe simultaneously the leads of an assembled IC. Each Microprobe makes contact with the shoulders of the device leads, whilst any downward force is transferred through the body of the device and not the leads themselves. It is terminated with a 25 way male "D" type connector, the interface makes temporary electrical contact with the leads of the device, in a two step action:

- the interface is positioned over the device to be tested (Lining it up with the body of the device and the leads and ensuring the **red** pin 1 mark on the handle matches the orientation of the device - **This is essential as the many of the devices have an extra tab on the first lead designating it as pin1 and the clip is keyed so that it will only fit properly one way**). It will be necessary to centralise the clip if the device being probed is narrower than 6.6mm. This will ensure that the probes make contact with the upper parts of the leads, and not at the point where the leads are formed. Doing this will increase the life of the probes.
- by pushing the handle further, the high-performance microprobes will reach the leads of the device and make electrical contact.

## Features

- achieves the best combination of reliability, repeatability, serviceability and user-friendliness;
- high contact pressure at probe tip, for repeatable and reliable contact;
- high reliability and long life interchangeable microprobes;
- sweeping action gold plated contacts, for reliable contact and low ohmic resistance of interconnections;
- high current rating (for single channel, in ambient air with 70°F [20°C]) : 1.5A
- impact, solvent and temperature resistant plastics, with low friction;
- wide range of operating temperatures (commercial): [0°C to +70°C]
- clear markings on the body, indicating Pin 1 of IC being tested, to prevent probing the wrong way round;
- packaged in a hard wearing, high resistance to damage Polypropylene case with foam insets, the Test Interface can withstand high impact in transit.
- case can be used for safe storage when the Test Interface is not in use, and subsequent transport.
- very flexible cable (military quality harnessing) with low friction, high performance TFE TEFLON insulated wires (MIL-W-16878E Type E, UL1213);



### NOTES

- 1) All dimensions in mm, unless otherwise specified.
- 2) Pin 1 of IC marked in red on probe body.

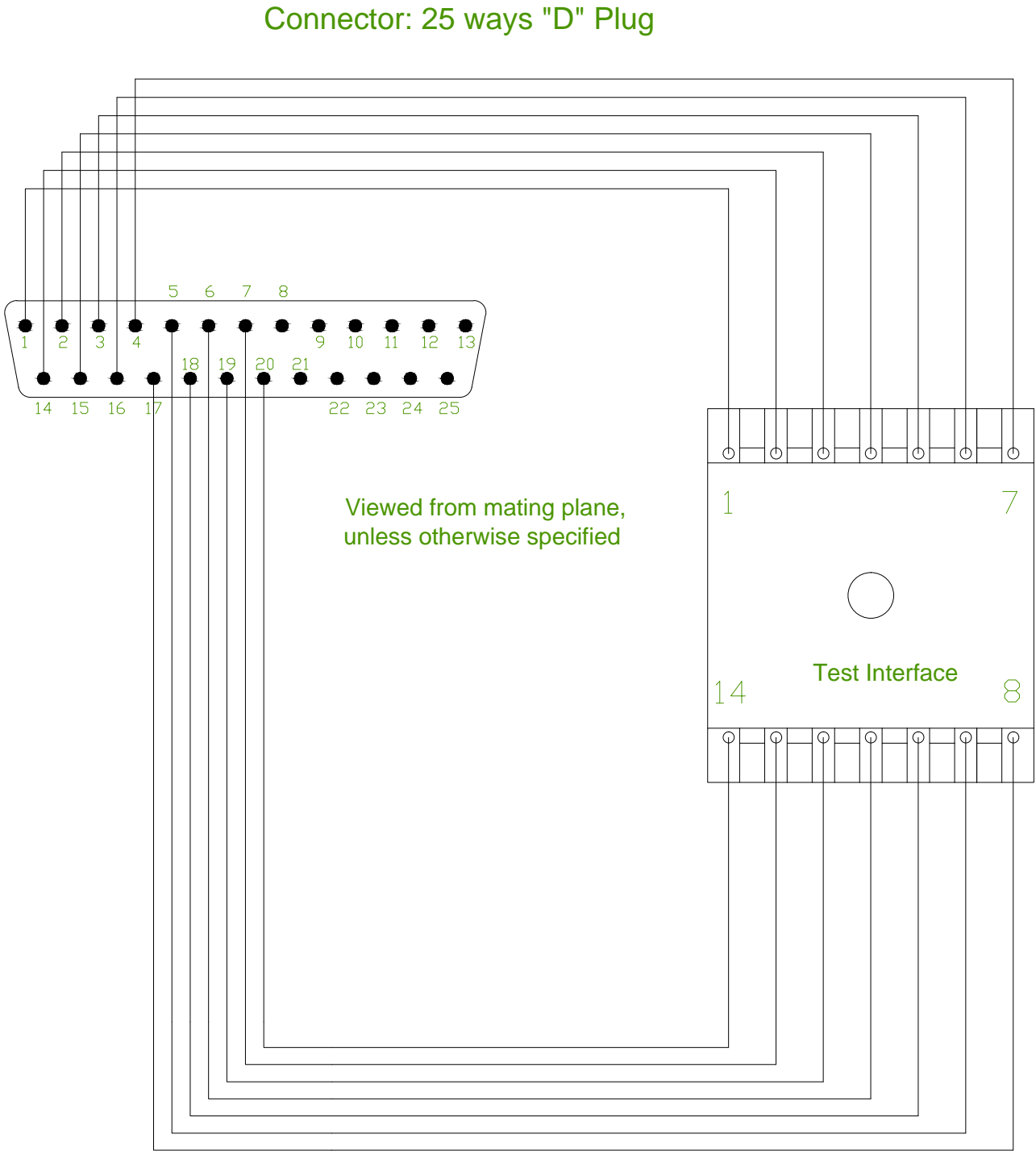
## Characteristics

- It will accommodate 14 Pin CDF, 50Thou Pitch, LxWxH: **As detailed in drawing above;**
- Maximum number of interconnections (channels): 14
- Current rating, with all contacts loaded (maximum continuous current, non inductive): 0.5A /channel;
- Contact resistance (average): 80 mΩ /channel;
- Insulation resistance: 5MΩ Min.
- Volume resistivity of plastic parts:  $10^{15}$  Ω-cm @ 50%RH.
- Fatigue life of probes: Min. 1,000,000 cycles at normal working distance;
- Working distance (normal stroke): 1.1mm;
- Microprobe force at point of contact (normal stroke): 0.3N

Connections Table

IC Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Connector Pin	1	14	2	15	3	16	4	17	5	18	6	19	7	20
Channel (PinPoint)	1	2	3	4	5	6	7	8	9	10	11	12	13	14

Wiring Diagram



Maintenance

The Test Interface Head is maintenance free. The microprobes are self-cleaning. Immersion in water or contact between microprobes and any liquids should be avoided, as this could severely reduce the working life of microprobes.

Contamination is the primary cause of probe contact problems. This is generally caused by flux left as a residue on circuit boards. Other probe contaminants such as dust, fluff, oil and grime can also cause problems in other areas. Light brushing of the tips of the probes with nylon, bristle or soft metal brushes will dislodge most contaminants.