

Introduction

This Test Interface is a hand held test clip that is designed to probe simultaneously the 132 underside contacts of the PGA device. It is terminated with six 25 way male "D" type connectors and will make temporary contact with the pins of the device when used as described below:

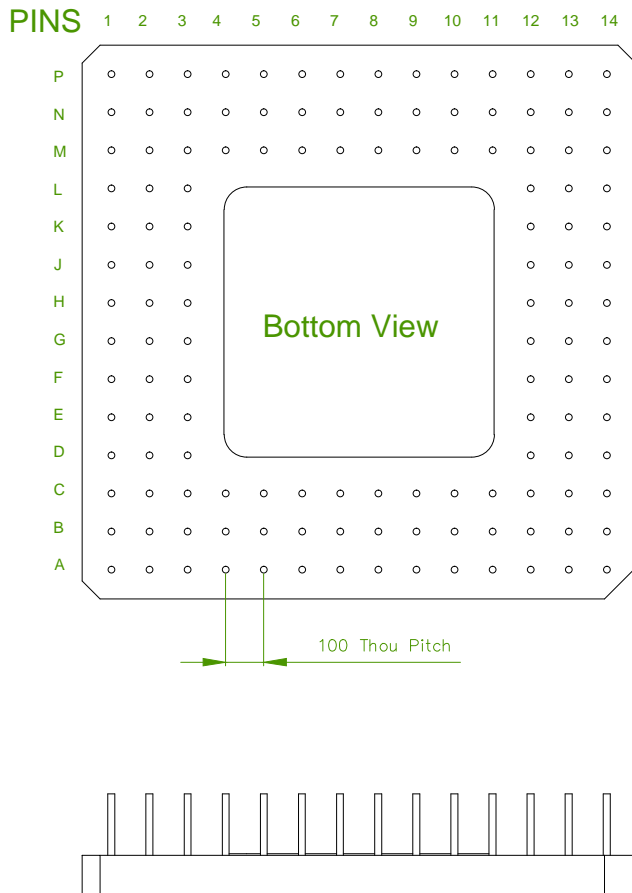
Operation

Align the test clip probes with all contacts of the 132 Pin device from underneath. When aligned, push further until contact is made and hold until all tests are completed.

Characteristics

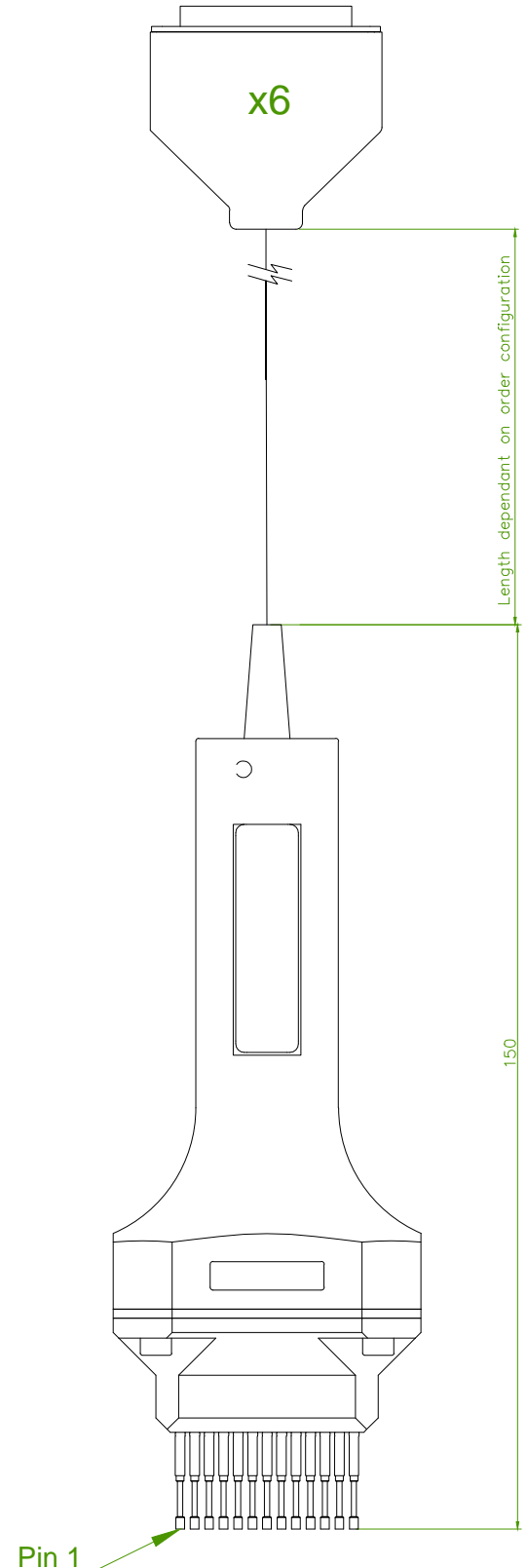
- It will accommodate a 132 Pin, 100 Thou Pitch PGA device as detailed below;
- Maximum number of interconnections (channels): 132
- Current rating, with all contacts loaded (maximum continuous current, non inductive): 0.5A /channel;
- Contact resistance (average): 80 m Ω /channel;
- Insulation resistance: 5M Ω Min.
- Volume resistivity of plastic parts: 10¹⁵ Ω -cm @ 50%RH.
- Fatigue life of probes: Min. 100,000 cycles at normal working distance;
- Working distance (normal stroke): 2.5mm;

Intel i960 - 132 Pins PGA



NOTES

- 1) All dimensions in mm, unless otherwise specified.



Connection

Each of the six D-Type connectors are labelled (A to F). Connect each connector of the clip to the relevant socket on the driver card.

| IC PIN | PinPoint Channel | IC PIN | PinPoint Channel | IC PIN | PinPoint Channel |
|--------|------------------|--------|------------------|--------|------------------|
| A1 | 62 | D3 | 27 | L13 | 116 |
| A2 | 63 | D12 | 101 | L14 | 141 |
| A3 | 67 | D13 | 105 | M1 | 16 |
| A4 | 71 | D14 | 121 | M2 | 19 |
| A5 | 69 | E1 | 1 | M3 | 43 |
| A6 | 68 | E2 | 5 | M4 | 47 |
| A7 | 61 | E3 | 30 | M5 | 41 |
| A8 | 52 | E12 | 104 | M6 | 46 |
| A9 | 57 | E13 | 127 | M7 | 42 |
| A10 | 49 | E14 | 123 | M8 | 120 |
| A11 | 51 | F1 | 9 | M9 | 110 |
| A12 | 55 | F2 | 8 | M10 | 112 |
| A13 | 59 | F3 | 35 | M11 | 119 |
| A14 | 130 | F12 | 100 | M12 | 117 |
| B1 | 12 | F13 | 131 | M13 | 137 |
| B2 | 11 | F14 | 126 | M14 | 140 |
| B3 | 64 | G1 | 4 | N1 | 14 |
| B4 | 25 | G2 | 10 | N2 | 15 |
| B5 | 33 | G3 | 36 | N3 | 89 |
| B6 | 65 | G12 | 106 | N4 | 45 |
| B7 | 66 | G13 | 122 | N5 | 44 |
| B8 | 58 | G14 | 132 | N6 | 88 |
| B9 | 56 | H1 | 13 | N7 | 86 |
| B10 | 102 | H2 | 18 | N8 | 74 |
| B11 | 99 | H3 | 26 | N9 | 83 |
| B12 | 54 | H12 | 109 | N10 | 111 |
| B13 | 128 | H13 | 134 | N11 | 115 |
| B14 | 124 | H14 | 144 | N12 | 77 |
| C1 | 6 | J1 | 22 | N13 | 142 |
| C2 | 7 | J2 | 20 | N14 | 138 |
| C3 | 37 | J3 | 48 | P1 | 24 |
| C4 | 34 | J12 | 114 | P2 | 94 |
| C5 | 29 | J13 | 136 | P3 | 92 |
| C6 | 32 | J14 | 135 | P4 | 93 |
| C7 | 28 | K1 | 17 | P5 | 95 |
| C8 | 108 | K2 | 21 | P6 | 87 |
| C9 | 107 | K3 | 38 | P7 | 96 |
| C10 | 103 | K12 | 118 | P8 | 84 |
| C11 | 98 | K13 | 143 | P9 | 78 |
| C12 | 97 | K14 | 139 | P10 | 75 |
| C13 | 125 | L1 | 23 | P11 | 73 |
| C14 | 129 | L2 | 39 | P12 | 81 |
| D1 | 3 | L3 | 40 | P13 | 80 |
| D2 | 31 | L12 | 113 | P14 | 133 |



Features

- serviceable - return to Diagnosys for repair;
- 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;
- wide range of operating temperatures (commercial): [0°C to +70°C]
- 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.

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.