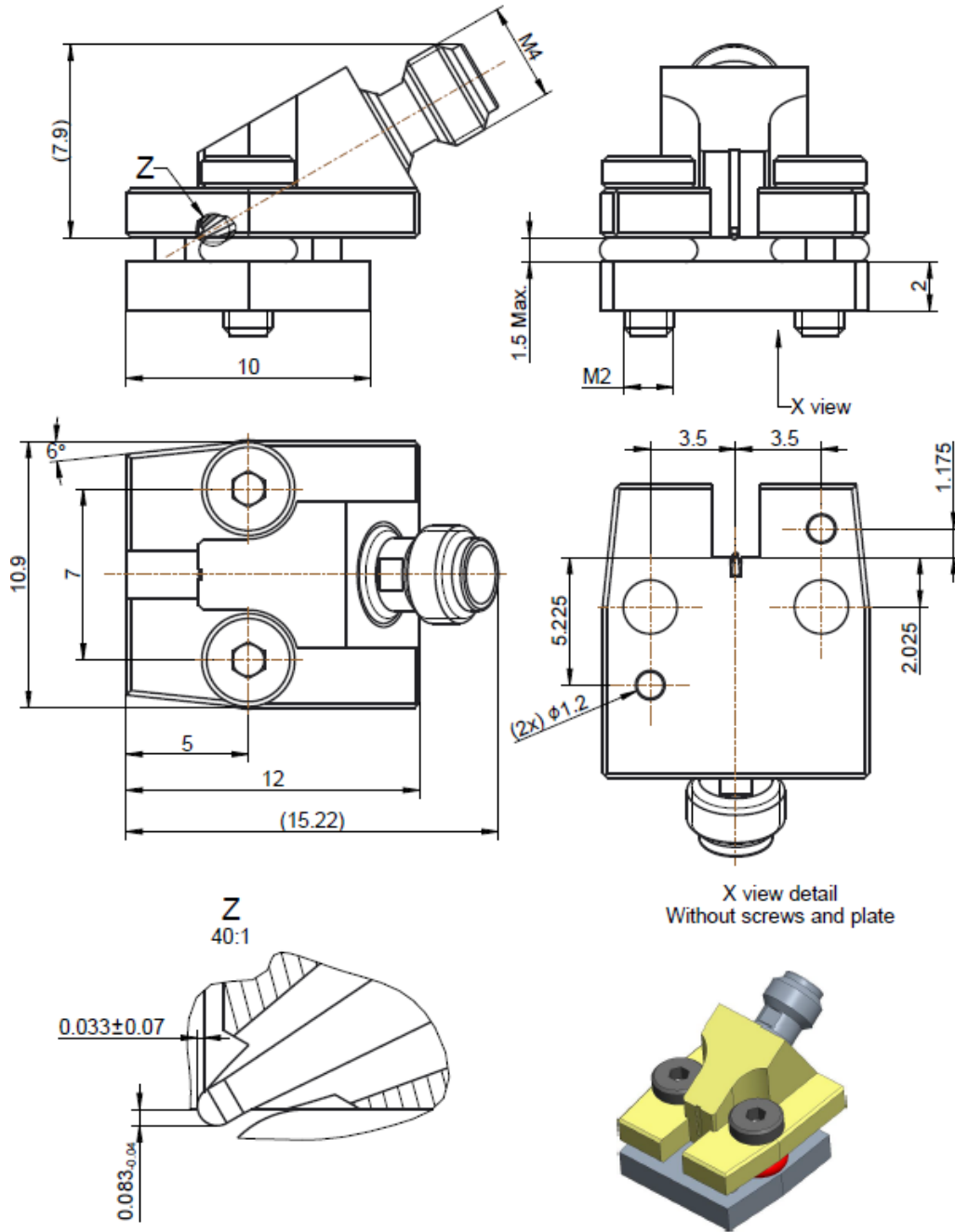


1.0-K-PEL



All dimensions are in mm; tolerances according to ISO 2768 m-H

Configuration

| | |
|---------------------|-----------------------------|
| 1.0 male interface | IEC 61169-31 |
| Connector Material: | |
| -Outer contact | Stainless steel, Passivated |
| -Center contact | CuBe, Gold plating |
| -Insulator | PEI or equivalent |
| -Body & Plate | Brass, Gold plating |

1.0 female for PCB end launch

Electrical Characteristics

| | |
|--|---|
| Impedance | 50 Ω |
| Frequency Range | DC to 110 GHz |
| Retention loss | ≥ 19 dB, DC to 40 GHz ≥ 15 dB, 40 GHz to 67 GHz ≥ 10 dB, 67 GHz to 110 GHz |
| Insertion Loss | $\leq 0.05 \times \sqrt{f}$ (GHz) dB |
| <i>Notice: RL&IL in application depends decisive on PCB layout</i> | |

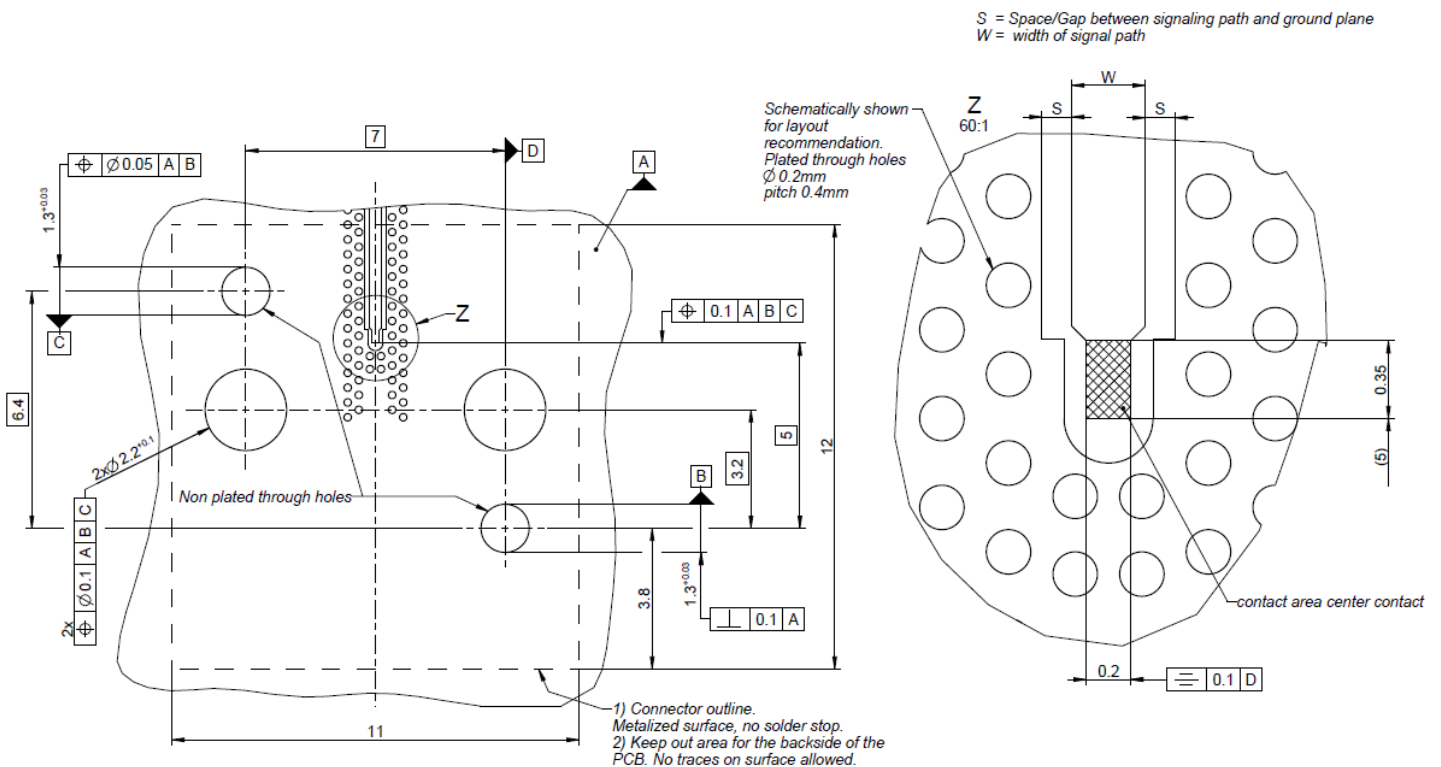
Mechanical Properties

| | |
|-------------------------------------|---|
| Mating cycles PCB side | ≥ 300 |
| Mating cycles RPC-1.00 side | ≥ 500 |
| Recommended torque of 1.0 connector | 0.30 Nm to 0.41 Nm |
| PCB thickness max. | 1.5 mm typical; dimension expandable with longer screws |

Environment Data

| | |
|---------------------|----------------|
| Working Temperature | -40°C to +85°C |
| RoHS | Compliant |

PCB layout dimensions



Notice:

The given layout is not optimized to fit all of the possible board configurations regarding RF-performance, it represent a recommendation for optimum solderability of the connector. In order to guarantee optimum high frequency properties of the connector, an RF-analysis of the connector to board translation is recommended.

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1.0 female for PCB end launch

Center contact position

Figure 1,2,3 described the mounted solderless PCB connector on the Test PCB. Check the positioning of the center contact on the contact are under a microscope.

Make sure that the center contact is positioned as centrally as possible (as shown in Figure 3, green frame) to get a good result.

If the positioning is bad (Figure 1, red frame) or moderate (Figure 2, orange frame), loosen the screws slightly and reposition the solderless PCB connector to reach a position like shown in Figure 3 and tighten the screws slightly.

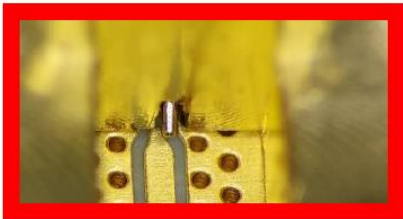


Figure 2: bad positioning



Figure2: moderate positioning



Figure 3: good positioning

Order Information

| Dloorplf P/N | Dloorplf Description |
|--------------|--|
| 1.0-K-PEL | 1.0 female for PCB end launch, DC to 110GHz, solderless type |