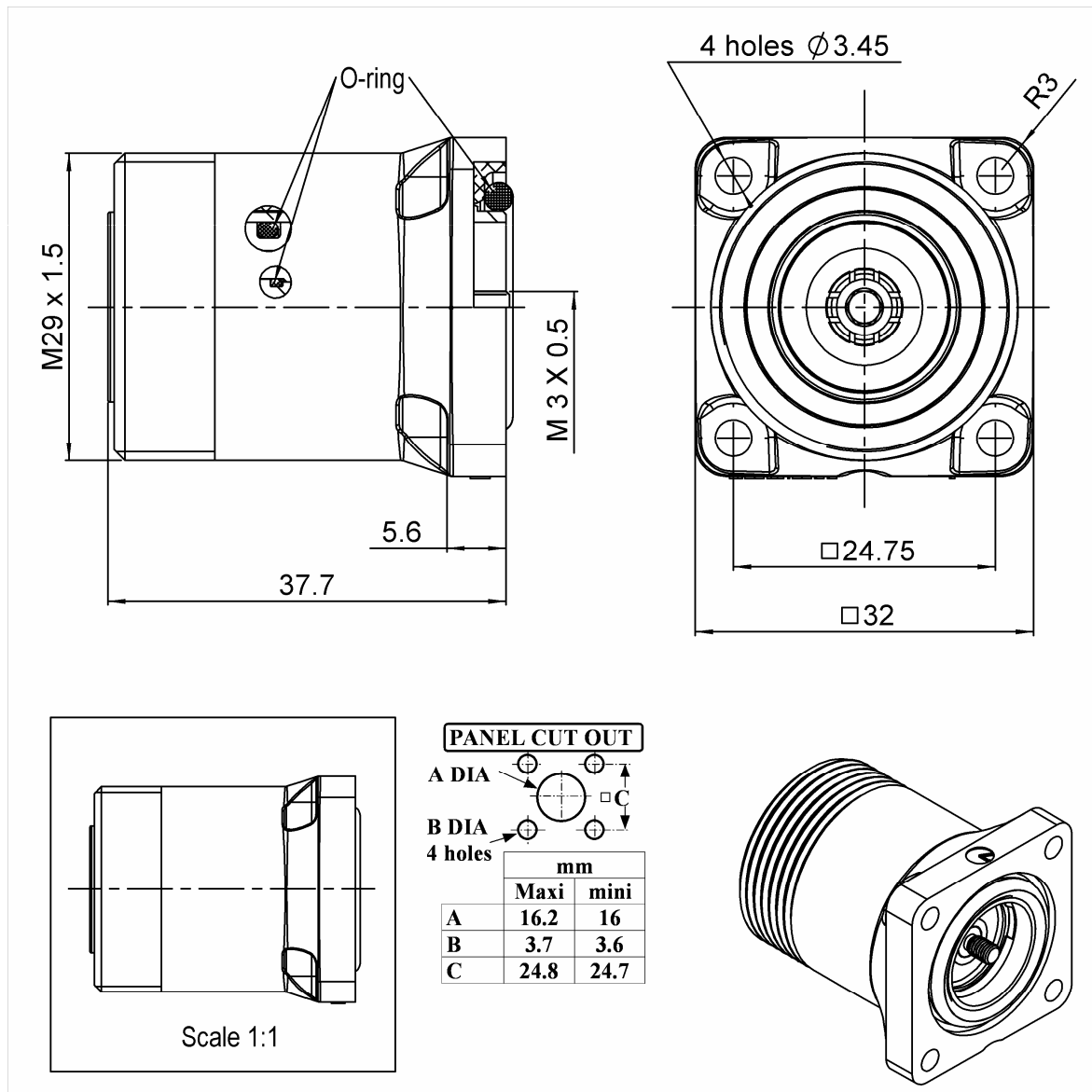


**COMPOSITE SQUARE FLANGE JACK RECEPTACLE-  
PANEL SEAL**

**R187.416.100**

Series : 7/16  
**COMPOSITE**

**WATERPROOF INTERFACE-FRONT MOUNT M3 SCREW**



All dimensions are in mm.

| COMPONENTS     | MATERIALS                  | PLATING (µm)             |
|----------------|----------------------------|--------------------------|
| BODY           | COMPOSITE MATERIAL - BLACK | -                        |
| CENTER CONTACT | BRONZE                     | SILVER 5 OVER COPPER 0.5 |
| OUTER CONTACT  | BRASS                      | SILVER 3 OVER BBR 0.5    |
| INSULATOR      | PTFE                       | -                        |
| GASKET         | SILICONE RUBBER            | -                        |
| OTHERS PARTS   | -                          | -                        |
| -              | -                          | -                        |
| -              | -                          | -                        |

Issue : 0935 C

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

**RADIAL** 

**COMPOSITE SQUARE FLANGE JACK RECEPTACLE-  
PANEL SEAL****R187.416.100**Series : 7/16  
**COMPOSITE****WATERPROOF INTERFACE-FRONT MOUNT M3 SCREW****PACKAGING**

| Standard  | Unit              | Other             |
|-----------|-------------------|-------------------|
| <b>40</b> | <b>'W' option</b> | <b>Contact us</b> |

**SPECIFICATION****ELECTRICAL CHARACTERISTICS**

|                                 |                       |                                |
|---------------------------------|-----------------------|--------------------------------|
| Impedance                       | <b>50</b>             | $\Omega$                       |
| Frequency                       | <b>0-7.5</b>          | GHz                            |
| VSWR                            | <b>*1.06 + 0.0000</b> | x F(GHz) Maxi                  |
| Insertion loss                  | <b>0.05</b>           | $\sqrt{F}(\text{GHz})$ dB Maxi |
| RF leakage                      | <b>- ( NA</b>         | - F(GHz)) dB Maxi              |
| Voltage rating                  | <b>1400</b>           | Veff Maxi                      |
| Dielectric withstanding voltage | <b>2700</b>           | Veff mini                      |
| Insulation resistance           | <b>10000</b>          | M $\Omega$ mini                |

**ENVIRONMENTAL**

|                       |                |                    |
|-----------------------|----------------|--------------------|
| Operating temperature | <b>-40/+85</b> | $^{\circ}\text{C}$ |
| Hermetic seal         |                | Atm.cm3/s          |
| Panel leakage         | <b>IP67</b>    |                    |

**OTHER CHARACTERISTICS**

Assembly instruction

Others :

\*VSWR : 1.06 between DC to 3GHz

\*VSWR : 1.10 between 3 to 7.5GHz

PIM3:-125dBm under 2 carriers of +43dBm

**MECHANICAL CHARACTERISTICS**

|                            |                        |
|----------------------------|------------------------|
| Center contact retention   |                        |
| Axial force – Mating end   | <b>200</b> N mini      |
| Axial force – Opposite end | <b>100</b> N mini      |
| Torque                     | <b>50</b> N.cm mini    |
| Recommended torque         |                        |
| Mating                     | N.cm                   |
| Panel nut                  | N.cm                   |
| Mating life                | <b>500</b> Cycles mini |
| Weight                     | <b>41.6100</b> g       |

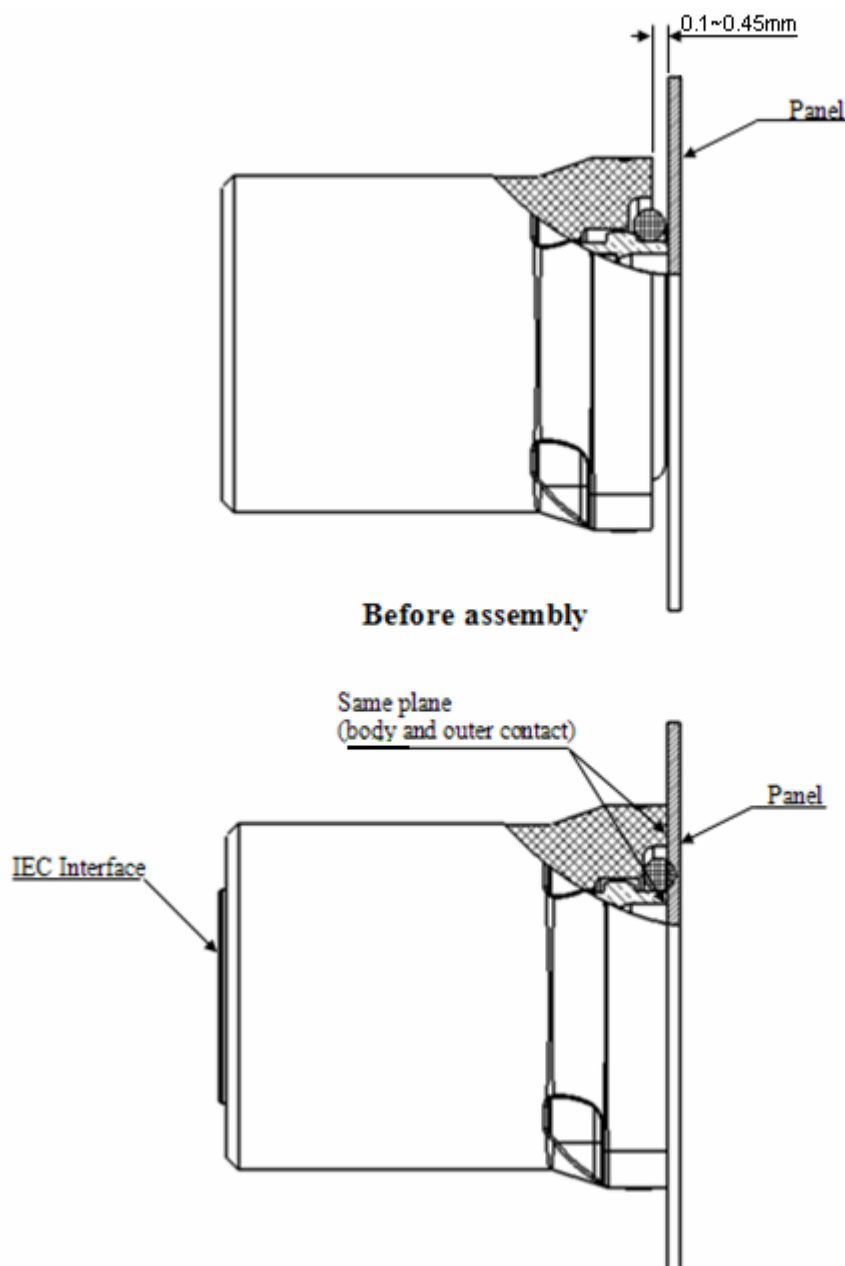
Issue : 0935 C

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

**RADIAL** 

**COMPOSITE SQUARE FLANGE JACK RECEPTACLE-  
PANEL SEAL****R187.416.100****WATERPROOF INTERFACE-FRONT MOUNT M3 SCREW**Series : 7/16  
**COMPOSITE****Assembly instruction**

Prior to the installation, the outer contact is slightly protruded from the rear flange (0.1~0.45mm). During the installation, the outer contact is pushed inside the composite housing. In its final position, the outer contact is aligned with the rear flange, and in contact with the panel. During mating, the outer contact is pressed against the panel, reducing significantly the IM3 generation.

**Issue : 0935 C**

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

**RADIAL** 

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Radial:

R187416100