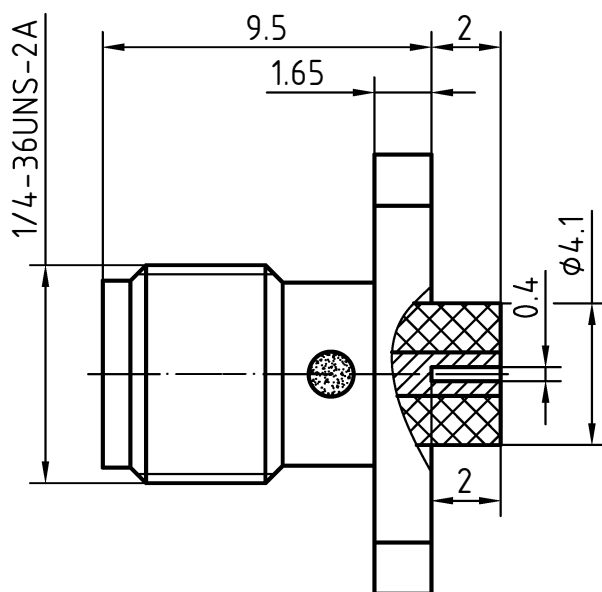
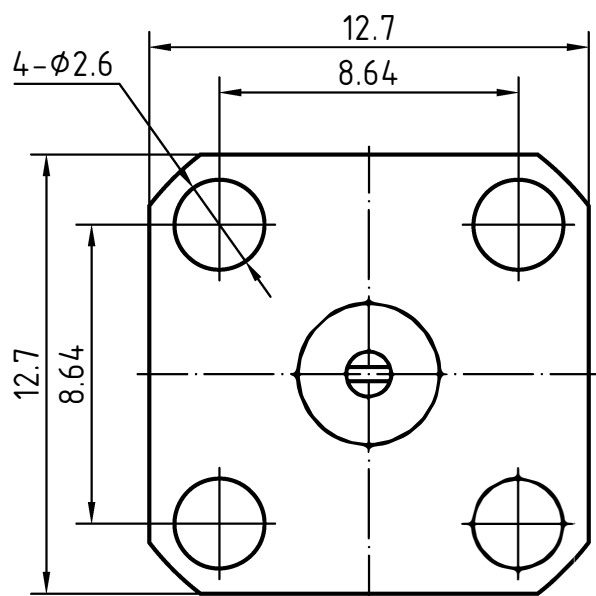
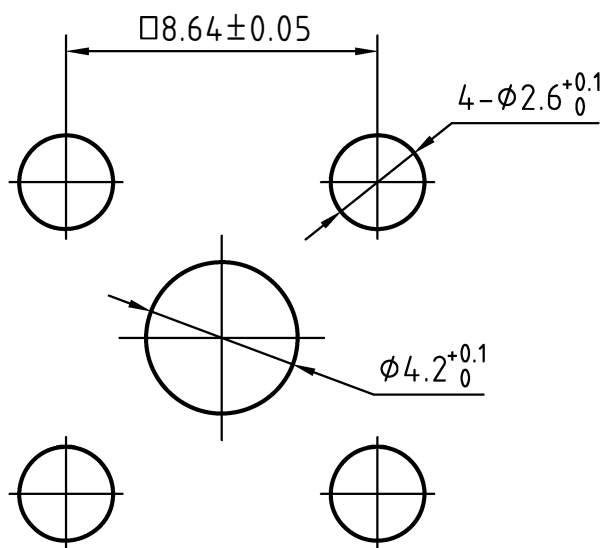


## DRAWING



MOUNTING HOLE



|   |   |                |                              |                              |
|---|---|----------------|------------------------------|------------------------------|
| 3 | 1 | Body           | Brass/Gold plated            | Gold 0.2um over Nickel 2.0um |
| 2 | 1 | Insulator      | PTFE                         |                              |
| 1 | 1 | Center contact | Beryllium copper/Gold plated | Gold 0.5um over Nickel 2.0um |

Designed by  
Xio XangChecked by  
Jing LoApproved by  
Jing ChanFile name  
SMA-232142(2S)Date  
10.07.12Scale  
5 : 1**RF CONNEC**

SMA-232142(2S)

Edition  
1.0Sheet  
1/1

## CHARACTERISTICS

|                                                  |                                                   |
|--------------------------------------------------|---------------------------------------------------|
| DESCRIPTION:                                     | SMA Type female FL connector                      |
| <u>Electrical data:</u>                          |                                                   |
| Impedance:                                       | 50 ohm                                            |
| Frequency range:                                 | DC to 18.0 GHz                                    |
| VSWR:                                            | $\leq 1.04 + 0.02 \times f [\text{GHz}]$          |
| Insertion loss:                                  | $\leq 0.05 \times \sqrt{f[\text{GHz}]} \text{dB}$ |
| Insulation resistance:                           | $\geq 5000\text{M}\Omega$                         |
| Test voltage:                                    | 1000 V rms                                        |
| Working voltage:                                 | 480 V rms                                         |
| Contact resistance:                              |                                                   |
| 1). Centre contact:                              | 3 mΩ                                              |
| 2). Outer conductor:                             | 2 mΩ                                              |
| Power handling (at 20 ° C, sea level, VSWR 1.0): | $\leq 200 \text{ W @ } 2 \text{ GHz}$             |
| RF-leakage:                                      | $\geq 100 \text{ dB up to } 1 \text{ GHz}$        |
| <u>Environmental data:</u>                       |                                                   |
| Temperature rating:                              | -65 ° C to +165 ° C                               |
| 2002/95/EC (RoHS):                               | Compliant                                         |
| <u>Mechanical data:</u>                          |                                                   |
| Mating cycles:                                   | $\geq 100$                                        |
| Center contact captivation(axial):               | $\geq 20 \text{ N}$                               |
| (radial):                                        | $\geq 1 \text{ Ncm}$                              |
| Coupling test torque:                            | $\leq 1.1 \text{ Nm}$                             |
| Recommended torque:                              | 0.46~0.69 Nm                                      |
| <u>Suitable cables:</u>                          | N/A                                               |