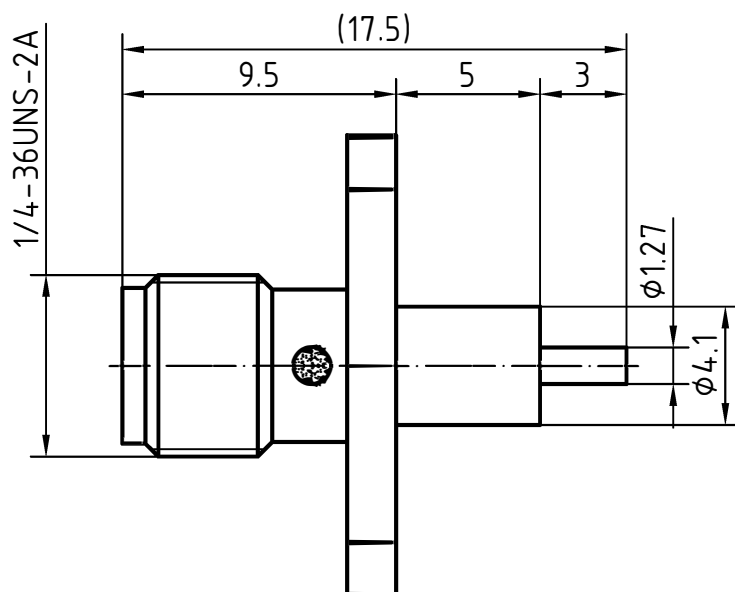
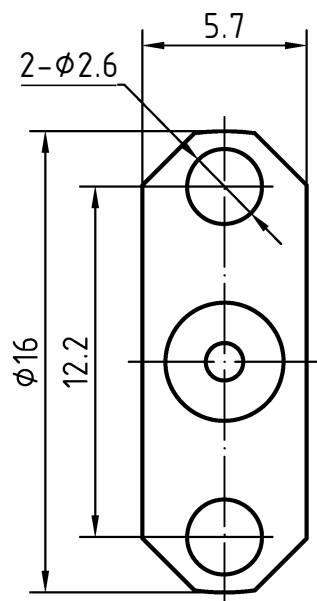
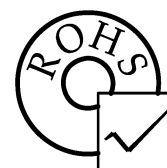
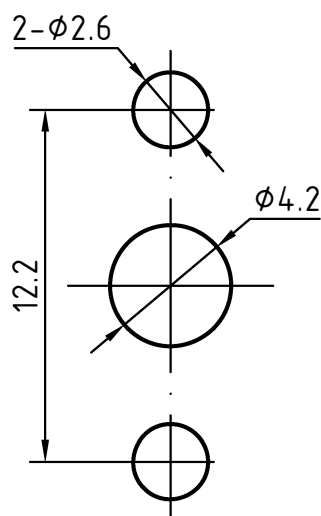


## DRAWING



MOUNTING HOLE



| 3       | 1        | Body                                             | Brass/Gold plated            |                       |
|---------|----------|--------------------------------------------------|------------------------------|-----------------------|
| 2       | 1        | Insulator                                        | PTFE                         |                       |
| 1       | 1        | Center contact                                   | Beryllium copper/Gold plated |                       |
| Itemref | Quantity | Title/Name, designation, material, dimension etc |                              | Article No./Reference |

Designed by  
Xio XangChecked by  
Jing LoApproved by - date  
Jing ChanFile name  
SMA-232122Date  
08.03.20Scale  
4:1**RF CONNEC****SMA-232122**Edition  
1.0Sheet  
1/1

# CHARACTERISTICS

DESCRIPTION:

SMA Type female FL connector

## Electrical data:

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| <i>Impedance:</i>             | <i>50 ohm</i>                                        |
| <i>Frequency range:</i>       | <i>DC to 18.0 GHz</i>                                |
| <i>VSWR:</i>                  | $\leq 1.04 + 0.02 \times f \text{ [GHz]}$            |
| <i>Insertion loss:</i>        | $\leq 0.08 \times \sqrt{f \text{ [GHz]}} \text{ dB}$ |
| <i>Insulation resistance:</i> | $\geq 5000 M\Omega$                                  |
| <i>Test voltage:</i>          | $\geq 1000 \text{ V rms}$                            |
| <i>Working voltage:</i>       | $\leq 480 \text{ V rms}$                             |
| <i>Contact resistance:</i>    |                                                      |
| 1). <i>Centre contact:</i>    | $\leq 3.0 \text{ m}\Omega$                           |
| 2). <i>Outer conductor:</i>   | $\leq 2.0 \text{ m}\Omega$                           |
| <i>RF leakage:</i>            | $\leq -(60 - F(\text{GHz})) \text{ dB}$              |

## Environmental data:

|                            |                            |
|----------------------------|----------------------------|
| <i>Temperature rating:</i> | <i>-65 ° C to +165 ° C</i> |
| <i>2002/95/EC (RoHS):</i>  | <i>Compliant</i>           |

## Mechanical data:

|                                    |                            |
|------------------------------------|----------------------------|
| <i>Mating cycles:</i>              | $\geq 500$                 |
| <i>Center contact captivation:</i> | $\geq 27 \text{ N(axial)}$ |
| <i>Coupling test torque:</i>       | $\leq 1.7 \text{ Nm}$      |
| <i>Recommended torque:</i>         | <i>0.46 Nm to 0.69 Nm</i>  |

## Suitable cables:

N/A