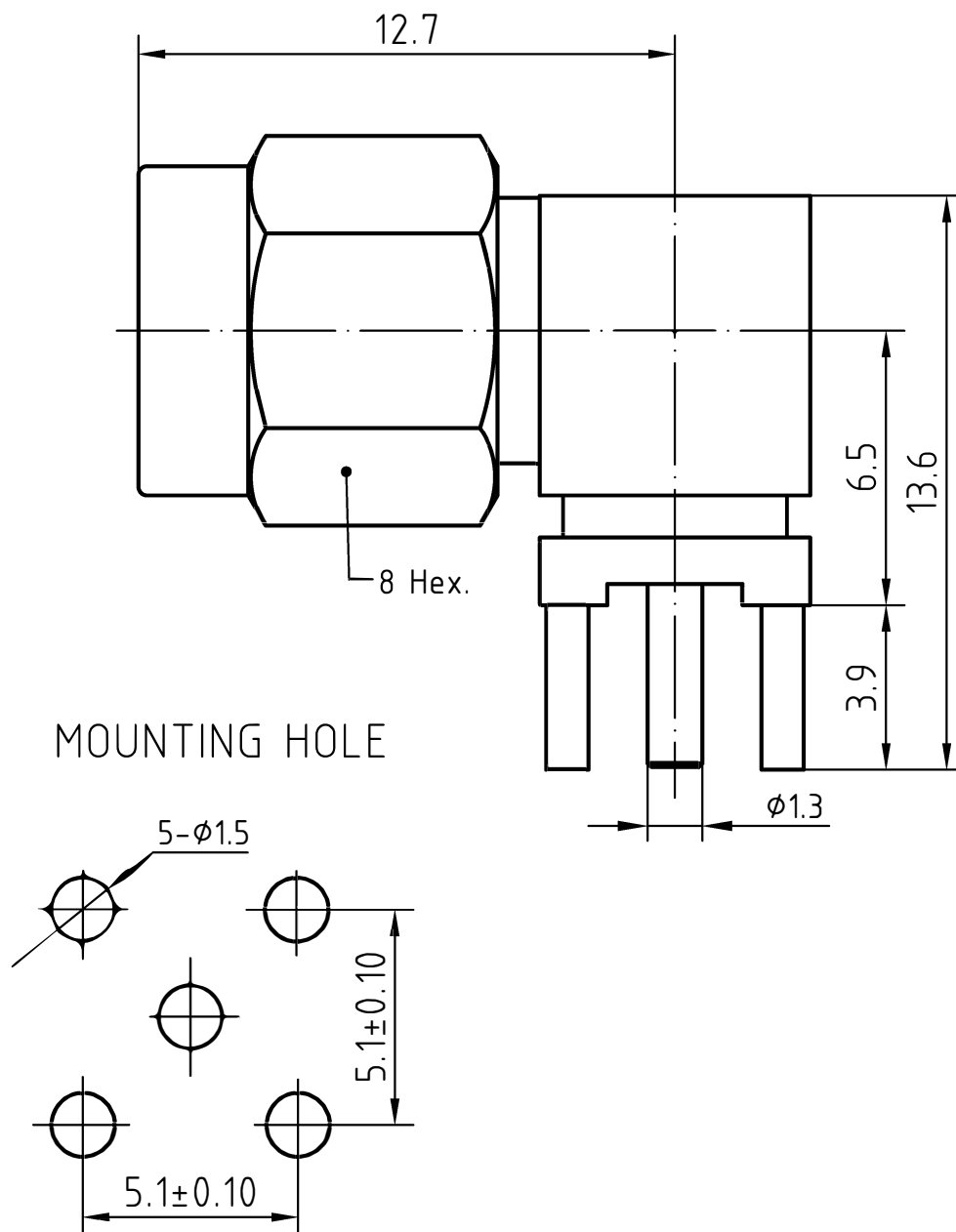


DRAWING



|   |   |                |                                |  |
|---|---|----------------|--------------------------------|--|
| 6 | 1 | O ring         | Silicone rubber                |  |
| 5 | 1 | Spring         | Beryllium copper/Nickel plated |  |
|   | 1 | Coupling nut   | Brass/Gold plated              |  |
| 3 | 1 | Body           | Brass/Gold plated              |  |
| 2 | 1 | Insulator      | PTFE                           |  |
| 1 | 1 | Center contact | Brass/Gold plated              |  |

| Itemref | Quantity | Title/Name, designation, material, dimension etc |  | Article No./Reference |
|---------|----------|--------------------------------------------------|--|-----------------------|
|---------|----------|--------------------------------------------------|--|-----------------------|

|                         |                       |                          |                         |                  |                |
|-------------------------|-----------------------|--------------------------|-------------------------|------------------|----------------|
| Designed by<br>Xio Xang | Checked by<br>Jing Lo | Approved by<br>Jing Chan | File name<br>SMA-331200 | Date<br>22.04.18 | Scale<br>6 : 1 |
|-------------------------|-----------------------|--------------------------|-------------------------|------------------|----------------|

|                  |  |                |              |
|------------------|--|----------------|--------------|
| <b>RF CONNEC</b> |  | SMA-331200     |              |
|                  |  | Edition<br>1.0 | Sheet<br>1/1 |

# CHARACTERISTICS

## DESCRIPTION:

SMA Type male R/A connector for PCB solder legs

### Electrical data:

*Impedance:* 50 ohm

*Frequency range:* DC to 18.0 GHz

*VSWR:*  $\leq 1.06 + 0.02 \times f \text{ [GHz]}$

*Insertion loss:*  $\leq 0.15 \times \sqrt{f \text{ [GHz]}} \text{ dB}$

*Insulation resistance:*  $\geq 5000 \text{ M}\Omega$

*Test voltage:* 1000 V rms

*Working voltage:* 480 V rms

*Contact resistance:*

1). Centre contact: 3.0 m $\Omega$

2). Outer conductor: 2.0 m $\Omega$

*Power handling* (at 20 °C, sea level, VSWR 1.0)  $\leq 200 \text{ W @ 2 GHz}; \leq 100 \text{ W @ 10 GHz}$

*RF-leakage*  $\geq 100 \text{ dB up to 1 GHz}$

- VSWR in application depends decisive on PCB layout -

### Environmental data:

*Temperature rating:* -65 ° C to +165 ° C

*2002/95/EC (RoHS):* Compliant

### Mechanical data:

*Mating cycles:*  $\geq 500$

*Center contact captivation:*  $\geq 27 \text{ N(axial)}$

*Coupling test torque:*  $\leq 1.1 \text{ Nm}$

*Recommended torque:* 0.46 Nm to 0.69 Nm

### Suitable cables:

N/A