

1 2 3 4

A

A

B

B

C

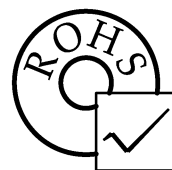
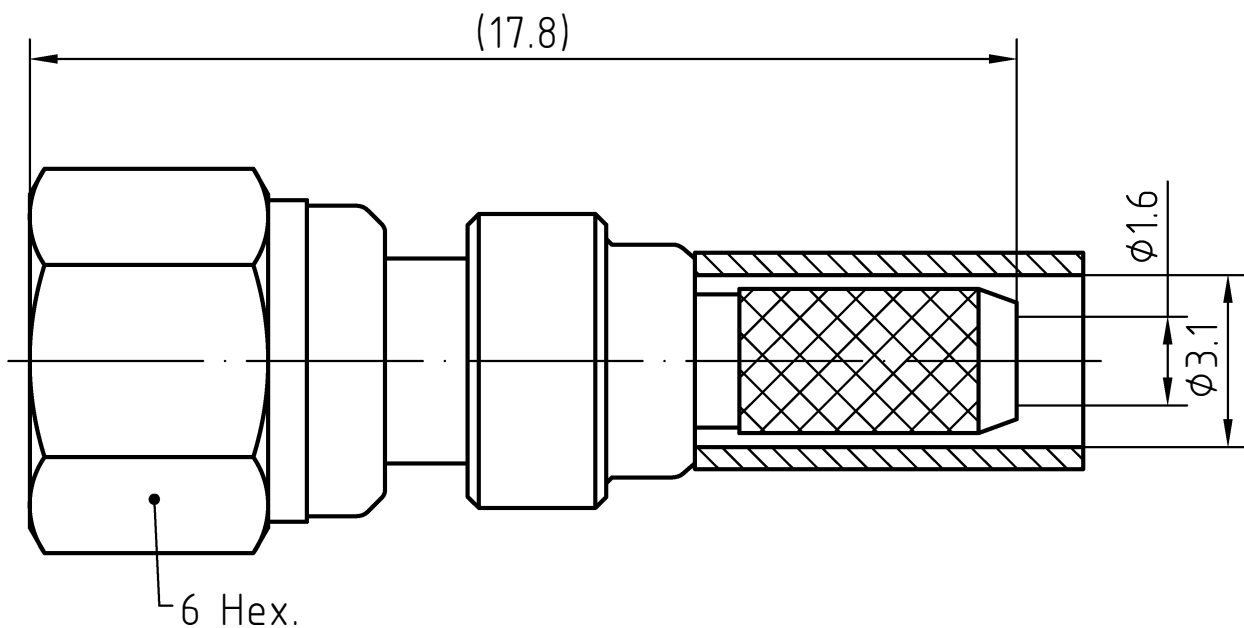
C

D

D

E

E



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

Designed by  
Xio Xang

Checked by  
Jing Lo

Approved by  
Jing Chan

File name  
SM C-112100A

Date  
08.03.10

Scale  
1:1

SM C-112100A

**RF CONNEC**

Edition  
1.0

Sheet  
1/1

# CHARACTERISTICS

DESCRIPTION: SMC Type female connector

## Electrical data:

*Impedance:* 50 ohm  
*Frequency range:* DC to 6.0 GHz  
*Return loss:*  $\geq 28\text{dB}$ , DC-1GHz  
 $\geq 22\text{dB}$ , 1-3GHz  
 $\geq 17\text{dB}$ , 3-6GHz  
*Insertion loss:*  $\leq 0.1 \times \sqrt{f[\text{GHz}]} \text{ dB}$   
*Insulation resistance:*  $\geq 1000\text{M}\Omega$   
*Test voltage:* 750 V rms  
*Working voltage:* 250 V rms  
*Contact resistance:*  
     1). Centre contact: 5.0 m $\Omega$   
     2). Outer conductor: 2.5 m $\Omega$   
*RF-leakage:*  $\geq 90 \text{ dB}$  up to 1 GHz

## Environmental data:

*Temperature rating:* -55 ° C to +155 ° C  
*2002/95/EC (RoHS):* Compliant

## Mechanical data:

*Mating cycles:*  $\geq 500$   
*Center contact captivation:*  $\geq 150 \text{ N}$   
*Coupling test torque:*  $\leq 0.71 \text{ Nm}$   
*Recommended torque:* 0.25 Nm to 0.35 Nm

## Suitable cables:

RG174A/U, RG188A/U, RG316/U