

# USMP series

## RF Coaxial Connector

### FEATURES

- Small size, light weight, high usage frequency, and high connection reliability
- Suitable for 5G AAU RF signal transmission in communication networks

### TECHNICAL PARAMETER

Temperature:  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Impedance:  $50\Omega$

Frequency: DC~4GHz

VSWR:  $\leq 1.3(0\sim 3\text{GHz}), \leq 1.45(3\sim 4\text{GHz})$

Insertion loss:  $\leq 0.15\sqrt{f}(\text{GHz})$

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

Dielectric strength:  $1000\text{V}(\text{rms})$

Operating Voltage:  $335\text{V}(\text{rms})$

Radial misalignment:

$\pm 0.6\text{mm}$  (For optical hole slide-in connectors (blind plug type connectors))

Axial misalignment:

$\pm 1.0\text{mm}$  (For optical hole slide-in connectors (blind plug type connectors))

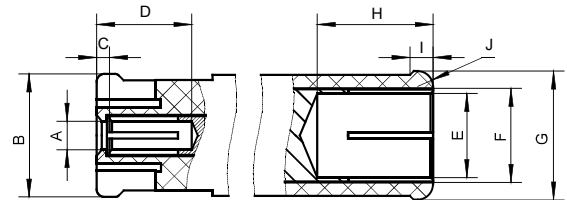
Mechanical endurance:  $\geq 100$  OPS

### IMPLEMENTATION CRITERIA

GB/T 11313.1-2013



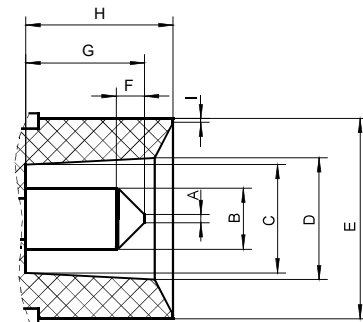
### INTERFACE DIMENSIONS



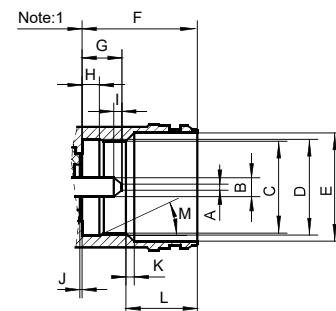
Adaptor for Limiter detent Male connector

Adaptor for Slide male connector

Female connector



Slide male connector



Limiter detent Male connector

**Notes:** Unannotated tolerances are  $\pm 0.1$ .

**Limiter detent Male connector**

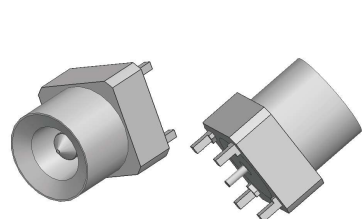
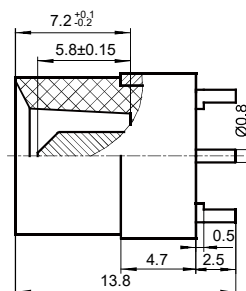
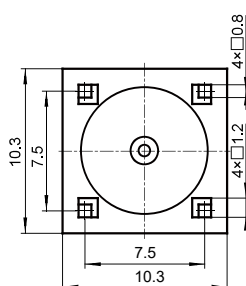
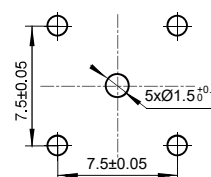
No.	Min(mm)	Max(mm)
<b>A</b>	0.1	0.5
<b>B</b>	0.9	0.94
<b>C</b>	4.48	4.52
<b>D</b>	4.68	4.75
<b>E</b>	5.2	5.3
<b>F</b>	5.45	5.65
<b>G</b>	1.75	2.15
<b>H</b>	0.8	0.9
<b>I</b>	0.3	0.5
<b>J</b>	-	0.3
<b>K</b>	-	0.6
<b>L</b>	3	4
No.	Min(°)	Max(°)
<b>M</b>	20	30

**Slide male connector**

No.	Min(mm)	Max(mm)
<b>A</b>	0.35	0.45
<b>B</b>	2.97	3.03
<b>C</b>	5.2	5.35
<b>D</b>	5.8	6.1
<b>E</b>	8.5	-
<b>F</b>	1.3	1.4
<b>G</b>	5.65	5.95
<b>H</b>	7.0	7.3
<b>I</b>	-	0.1

**Female connector**

No.	Min(mm)	Max(mm)
<b>A</b>	0.5	0.9
<b>B</b>	4.75	5.0
<b>C</b>	0.3	0.6
<b>D</b>	3.9	-
<b>E</b>	2.9	2.95
<b>F</b>	3.62	3.68
<b>G</b>	4.9	5.1
<b>H</b>	2.2	-
<b>I</b>	-	0.9
<b>J</b>	-	0.6

**USMP-JHE****PC BOARD LAYOUT****Notes:** Recommended PCB opening