

**Withwave's SMP Connectors** cover wide frequency ranges from RF to Microwave with excellent frequency performance and high density. The proprietary internal insulator enables simple structure with higher performance compared to the conventional SMP connectors.

The best applications could be 5G complex mobile communications modules, systems and various other wireless systems.



#### ■ Features

- Frequency range : DC to 40 GHz
- High density SMT packaging available
- Push-on mating for quick installation

#### ■ Application

- Telecommunication
- High Speed Applications
- Surface Mount Connection
- Broadband

#### ■ Specification

| Scope                      | Items             | Specification       |
|----------------------------|-------------------|---------------------|
| Electrical                 | Freq. Range (Max) | 40.0 GHz            |
|                            | Impedance         | 50 Ohm              |
|                            | VSWR (Typ.)       | 1.50 : 1            |
| Material                   | Connector Type    | SMP                 |
|                            | Body              | Brass (Gold Plated) |
|                            | Contact           | Brass (Gold Plated) |
|                            | Insulator         | LCP                 |
| Mechanical & Environmental | Temperature       | -40 ~+125 °C        |

\*RoHS Compliant

#### Ordering Information

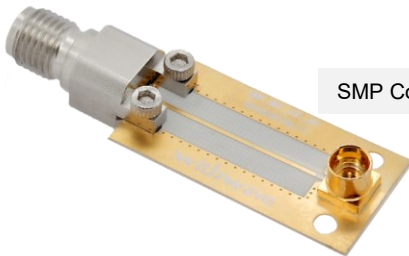
| Interface   | Part No.  |
|-------------|-----------|
| Smooth Bore | SM05MS001 |
| Full Detent | SM05MS002 |

#### Test Results

Substrate : RO4003 8 mil

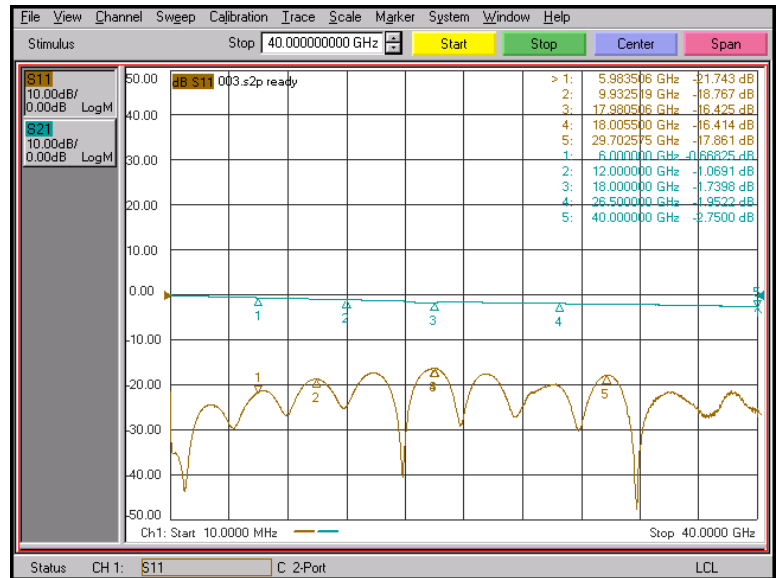
Part No. : SM05MS002

End Launch 2.92 mm  
Connector(Narrow Block)

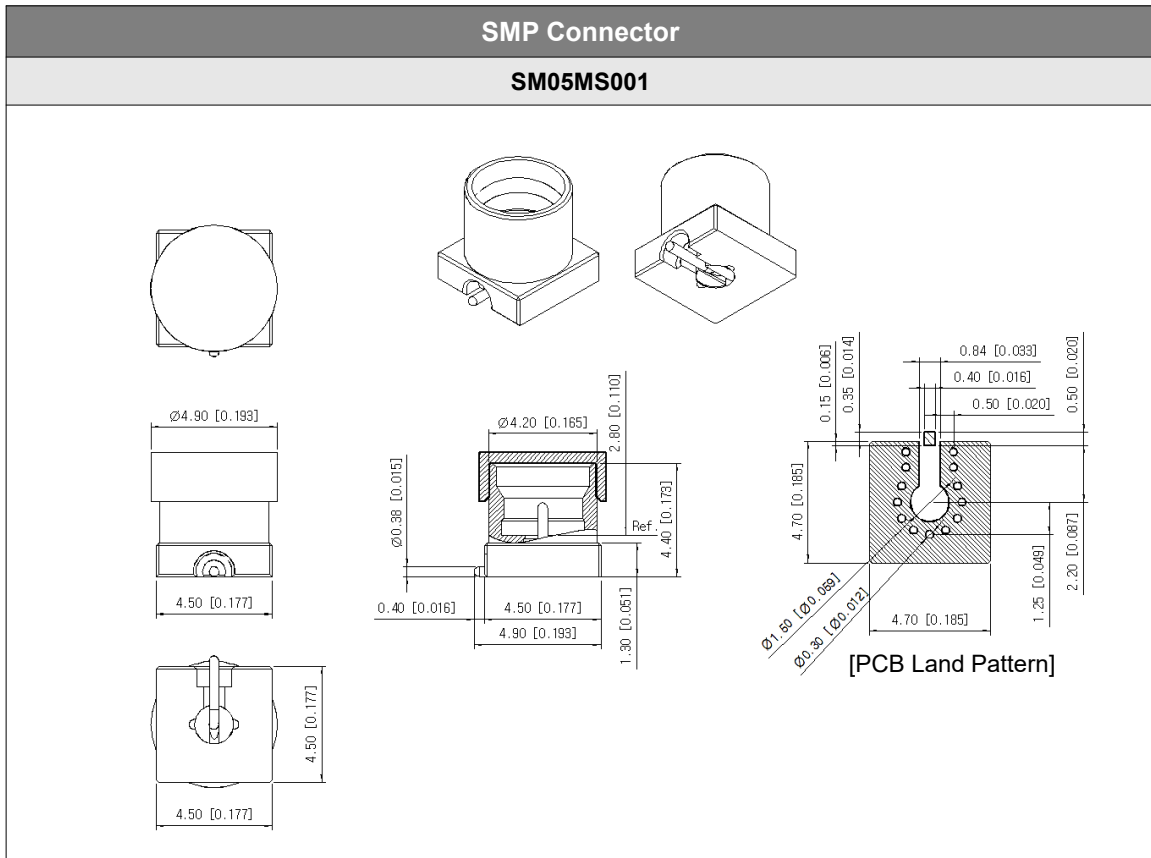


SMP Connector

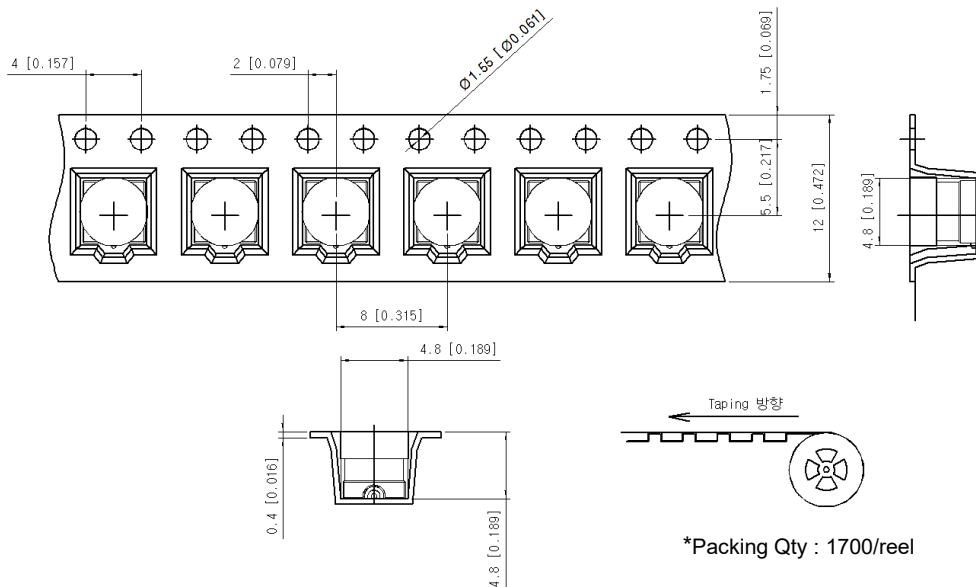
Freq: 10 MHz to 40 GHz



#### ■ Drawing



#### ■ Packaging Information



### ■ Revision History

| Revision | Date       | Changes                |
|----------|------------|------------------------|
| Ver 1.0  | 2024-04-01 | Released SMP Connector |