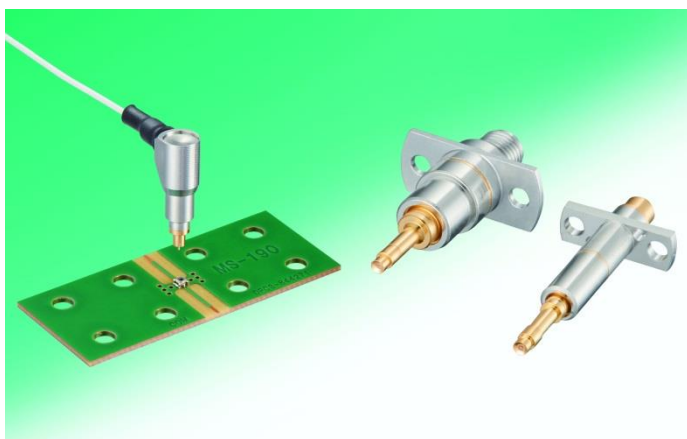




# MS-190 Series

## Ultra Compact High-Frequency Coaxial Switch



### ◆ Features

1. World's smallest size  
Outer Dimensions: 1.45mm × 1.45mm × 0.68mm  
Occupied mounting area: 1.6mm × 1.65mm
2. High-frequency: DC to 11GHz
3. Low insertion loss (Normally closed)  
0.10dB Max. [DC to 3.0GHz]  
0.20dB Max. [3.0GHz-6.0GHz]  
0.30dB Max. [6.0GHz-11.0GHz]
4. Design to prevent dust intrusion
  - Integral molding seals side holes and prevents dust intrusion
  - Highly reliable independent 2-point contact
5. Solder wicking and flux penetration prevention
6. Self-floating plug
7. RoHS Compliant, Halogen-free

**Ultra Low-Profile**  
**0.68mm**

**World's Smallest Size**

### ■ Material & Finish

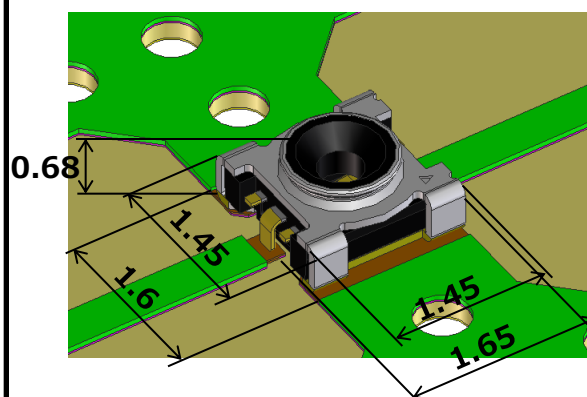
COMPONENT	MATERIAL	FINISH, COMMENT
Shell	Phosphor bronze	Partial gold plating
Insulator	LCP*	UL94V-0
Common Contact, Antenna Contact	Copper alloy	Partial gold plating

\*This product satisfies halogen free requirements defined as 900 ppm maximum chlorine, 900 ppm maximum bromine, and 1500 ppm maximum total of chlorine and bromine.

### ■ Performance Characteristics

Operating Temperature Range		-40°C to +85°C
Rated Current		2W
Frequency Range		DC to 11.0GHz
V.S.W.R.	Unmated Condition	1.2 Max. (DC to 3.0GHz) 1.3 Max. (3.0GHz-6.0GHz) 1.4 Max. (6.0GHz-11.0GHz)
Insertion Loss	Unmated Condition	0.10dB Max. (DC to 3.0GHz) 0.20dB Max. (3.0GHz-6.0GHz) 0.30dB Max. (6.0GHz-11.0GHz)
Isolation		25dB Min. (DC to 3.0GHz) 20dB Min. (3.0GHz-6.0GHz) 12dB Min. (6.0GHz-11.0GHz)
Durability		100 cycles

### ◆ Dimensions



Specifications herein are subject to change without notice. Contact Hirose for the latest specifications, drawings and availabilities.