

SMA Reverse Coaxial Connector Up to 26.5GHz

SMA(R) Series



■ Features

1. Excellent high-frequency performance

Equivalent to perform same characteristics as Hirose HRM series which is Japan's first SMA. Comforming to FCC Standard (Part15 47 CFR 15.203*)

2. Small size / Light weight / Robust

3. Wide variation

Various SMA and FL conversion Adapters are available. Assembly with FL series is available.

■ Applications

Wi-Fi equipment, Gaming machine, Measurement instrument and other equipment's inter connection which need special interface.

■ Product Specifications

| | | | | |
|---------|----------------------------------|--------------|-----------------------------|-----------------|
| Ratings | Nominal characteristic impedance | 50Ω | Operating Temperature Range | -55°C to +125°C |
| | Rated frequency | 0 to 26.5GHz | Storage Temperature Range | 95% RH or less |

| Items | Specifications | | Conditions | | | |
|--|---|---|--|------------------|--------------|--------------|
| 1. Contact resistance | SMA (R) -300-126B | HRMJ-SMA (R) P | Measured at less than 100mA DC | | | |
| | Center : Less than 6mΩ | Center : Less than 8mΩ | | | | |
| | External : Less than 6mΩ | External : Less than 8mΩ | | | | |
| 2. Withstanding voltage | No flashover or breakdown | | 1000V AC for 1 minute | | | |
| 3. Insulation resistance | 5000MΩ min. | | Measured at 500V DC | | | |
| 4. Moisture resistance of temperature/humidity cycle | SMA (R) -300-126B | HRMJ-SMA (R) P | Left for 10 cycles (240 hours) in an environment with the temperature ranging from +25 to +65°C and the humidity ranging from 90 to 98%. | | | |
| | Insulation resistance : More than 100MΩ (in a high humidity environment) Insulation resistance : More than 5000MΩ (in a dry environment) | Insulation resistance : More than 100MΩ (in a high humidity environment) Insulation resistance : More than 1000MΩ (in a dry environment) | | | | |
| 5. Temperature cycle | No broken, cracked or loose parts | | Temperature : 5 cycles for a series of time periods : -65°C for 30 minutes → +125°C for 30 minutes | | | |
| 6. Salt spray | SMA (R) -300-126B | HRMJ-SMA (R) P | Continuous 48 hour in 5% salt water solution | | | |
| | VSWR : Less than 1.3 | VSWR : Less than 1.4 | | | 0 to 3GHz | 0 to 26.5GHz |
| | VSWR : Less than 1.5 | | | | 3GHz to 6GHz | |
| 7. Mating Cycles | SMA (R) -300-126B | HRMJ-SMA (R) P | SMA (R) -300-126B | HRMJ-SMA (R) P | | |
| | Center : Less than 8mΩ External : Less than 8mΩ | Center : Less than 12mΩ External : Less than 12mΩ | 500 cycles | 1000 cycles | | |
| 8. V.S.W.R. | SMA (R) -300-126B | HRMJ-SMA (R) P | SMA (R) -300-126B | HRMJ-SMA (R) P | | |
| | VSWR : Less than 1.3 | VSWR : Less than 1.25 | 0 to 3GHz | 0 to 12.4GHz | | |
| | VSWR : Less than 1.5 | VSWR : Less than 1.3 | 3GHz to 6GHz | 12.4GHz to 18GHz | | |
| | | VSWR : Less than 1.4 | — | 18GHz to 26.5GHz | | |

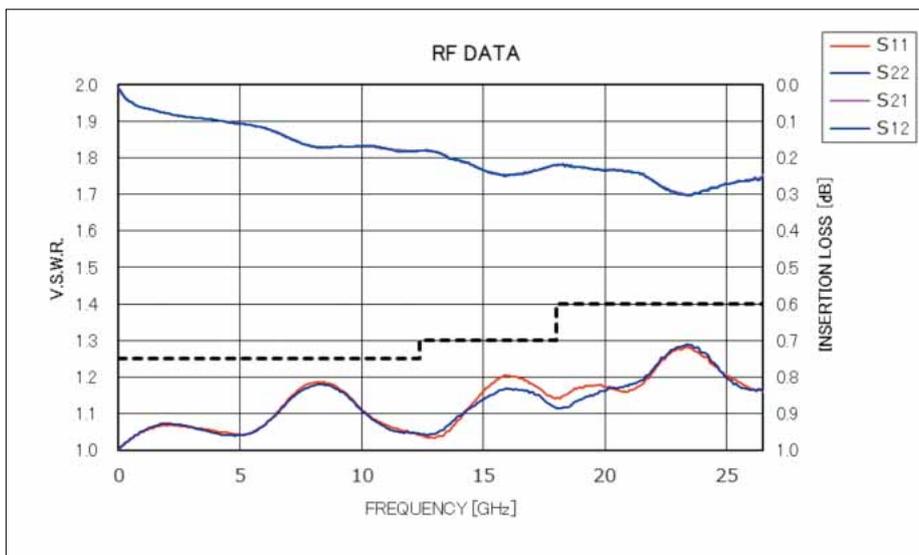
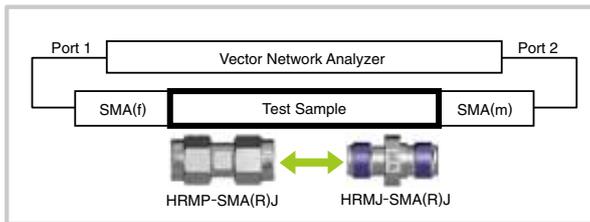
■ Materials / Finish

| Part | | Materials | Finish |
|-----------|----------------|------------------|-------------------------|
| Shell | Receptacle | Brass | Gold plated |
| | Plug, Shell | Stainless steel | Gold plated, Passivated |
| Contact | Male contact | Brass | Gold plated |
| | Female contact | Beryllium copper | Gold plated |
| Insulator | | PTFE (resin) | — |

High-frequency characteristic

Connector combination for the measurement.

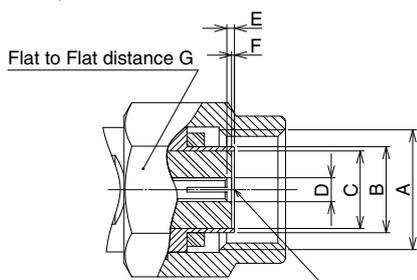
(Straight adapter SMA Plug - PR-SMA Plug and SMA Jack - RP-SMA Jack)



Dimensions

Plug openings

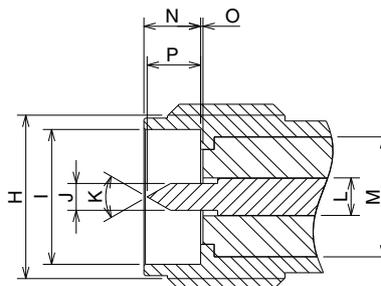
Shape 1



Insert $\phi 0.910$ pin.
Extraction force shall be 1.5N or more.

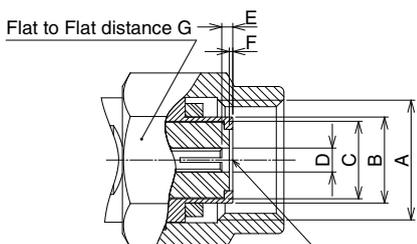
| Symbol | Dimensions | |
|--------|--------------|--------|
| | Shape1 | Shape2 |
| A | 1/4-36UNS-2B | |
| B | $\phi 4.56$ | |
| C | $\phi 4.11$ | |
| D | $\phi 1.27$ | |
| E | 0.13 | 0.58 |
| F | 0.08 | |
| G | 8 | |

Jack openings



| Symbol | Dimensions |
|--------|--------------|
| H | 1/4-36UNS-2A |
| I | $\phi 4.62$ |
| J | $\phi 0.92$ |
| K | 60° |
| L | $\phi 1.27$ |
| M | $\phi 4.11$ |
| N | 1.93 |
| O | 0.08 |
| P | 1.8 |

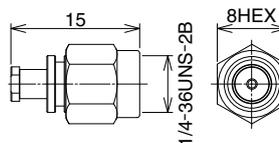
Shape 2



Insert $\phi 0.910$ pin.
Extraction force shall be 1.5N or more.

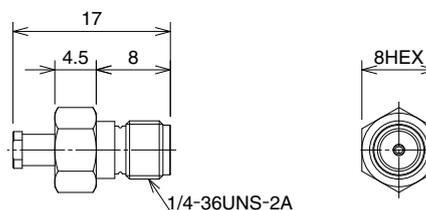
■ Ultra - fine Coaxial Cable (6GHz)

● Straight plug



| Part No. | HRS No. | Applicable Cable |
|-------------------|------------|------------------|
| SMA(R)-200-040PBN | 323-0925-0 | φ0.81 |
| SMA(R)-200-066PBN | 323-0930-0 | φ1.13, φ1.32 |
| SMA(R)-200-088PBN | 323-0905-3 | φ1.37, φ1.48 |

● Straight jack



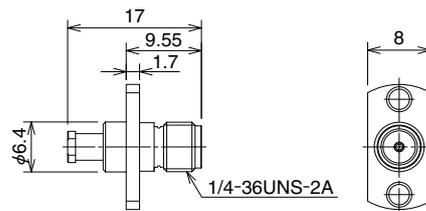
| Part No. | HRS No. | Applicable Cable |
|-------------------|------------|------------------|
| SMA(R)-200-040JBN | 323-0926-3 | φ0.81 |
| SMA(R)-200-066JBN | 323-0931-3 | φ1.13, φ1.32 |
| SMA(R)-200-088JBN | 323-0904-0 | φ1.37, φ1.48 |

● Panel jack (4 hole type)



| Part No. | HRS No. | Applicable Cable |
|---------------------|------------|------------------|
| SMA(R)-200-040PJ4BN | 323-0928-9 | φ0.81 |
| SMA(R)-200-066PJ4BN | 323-0932-6 | φ1.13, φ1.32 |
| SMA(R)-200-088PJ4BN | 323-0934-1 | φ1.37, φ1.48 |

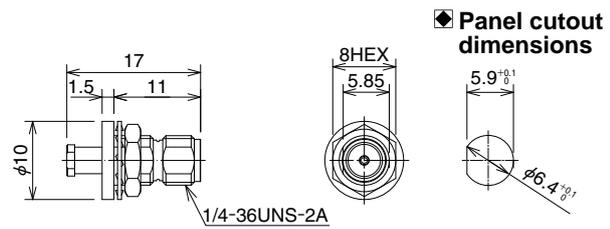
● Panel jack (2 hole type)



| Part No. | HRS No. | Applicable Cable |
|---------------------|------------|------------------|
| SMA(R)-200-040PJ2BN | 323-0929-1 | φ0.81 |
| SMA(R)-200-066PJ2BN | 323-0933-9 | φ1.13, φ1.32 |
| SMA(R)-200-088PJ2BN | 323-0935-4 | φ1.37, φ1.48 |

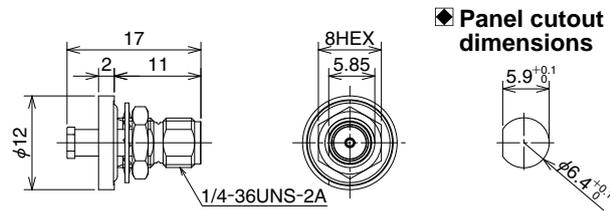
■ Ultra - fine Coaxial Cable (6GHz)

● Panel jack (Bulkhead type)



| Part No. | HRS No. | Applicable Cable |
|---------------------|------------|------------------|
| SMA(R)-200-040BPJBN | 323-0927-6 | φ0.81 |
| SMA(R)-200-066BPJBN | 323-0902-5 | φ1.13, φ1.32 |
| SMA(R)-200-088BPJBN | 323-0901-2 | φ1.37, φ1.48 |

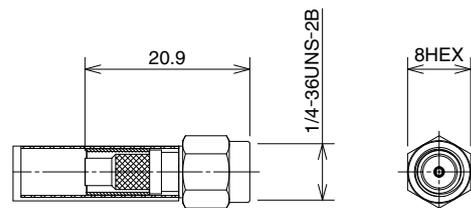
● Panel jack (Bulkhead type / Waterproof)



| Part No. | HRS No. | Applicable Cable |
|----------------------|------------|------------------|
| SMA(R)-200-040WBPJBN | 323-0947-3 | φ0.81 |
| SMA(R)-200-066WBPJBN | 323-0948-6 | φ1.13, φ1.32 |
| SMA(R)-200-088WBPJBN | 323-0949-9 | φ1.37, φ1.48 |

■ Straight plug

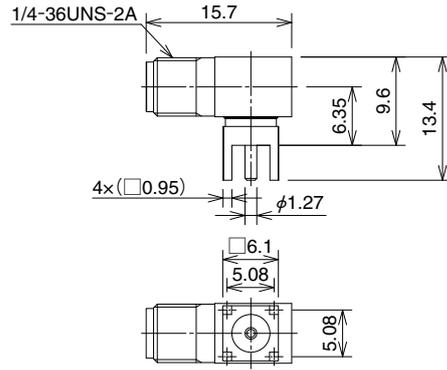
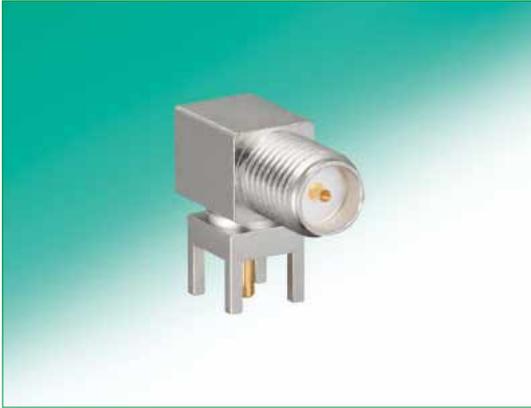
● Flexible cable



| Part No. | HRS No. | Applicable Cable |
|-----------------|------------|------------------|
| SMA(R)-P-2.5DQS | 323-0875-4 | 2.5D-HQ SUPER |

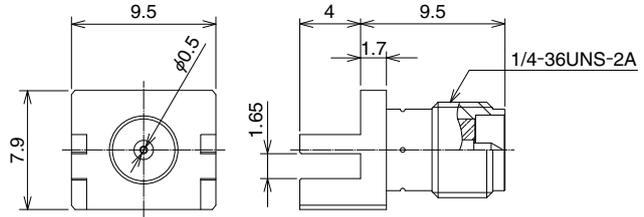
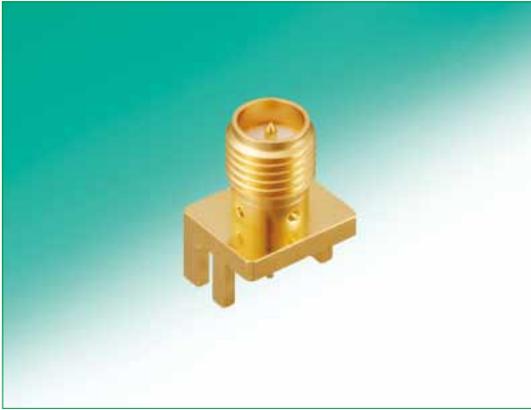
Receptacles

● Right angle receptacle (THT mount type)



| Part No. | HRS No. | Remark |
|-----------------|------------|---------------|
| SMA(R)-300-126B | 323-0111-0 | Shell : Brass |

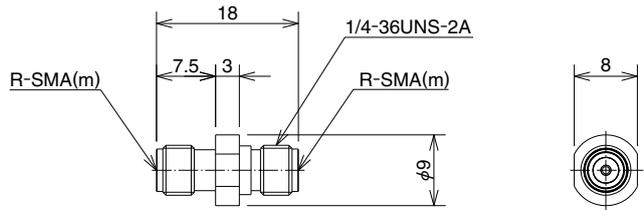
● Straight receptacle (Edge mount type)



| Part No. | HRS No. | Remark |
|-----------------|------------|---------------------|
| SMA(R)-R-ELBG-1 | 323-0866-3 | PCB Thickness 1.6mm |

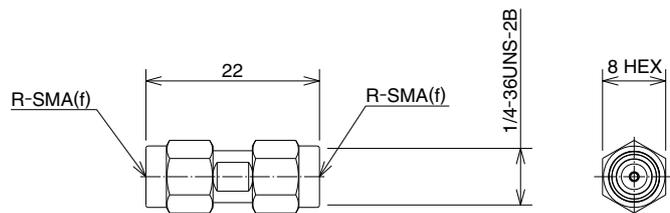
In-line Adapters

● Jack - Jack



| Part No. | HRS No. | Remark |
|-------------|------------|-------------------------|
| SMA(R)-A-JJ | 323-0124-0 | Shell : Stainless steel |

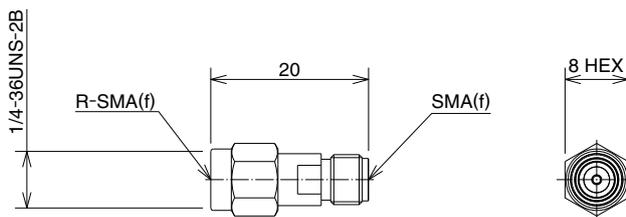
● Plug - Plug



| Part No. | HRS No. | Remark |
|-------------|------------|-------------------------|
| SMA(R)-A-PP | 323-0127-0 | Shell : Stainless steel |

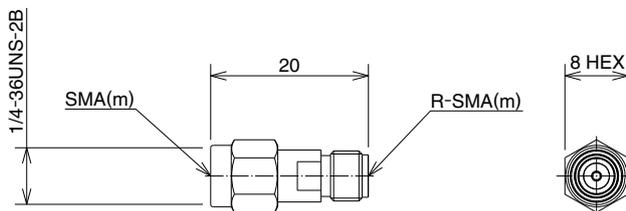
SMA Conversion Adapters

● SMA jack - RP-SMA plug



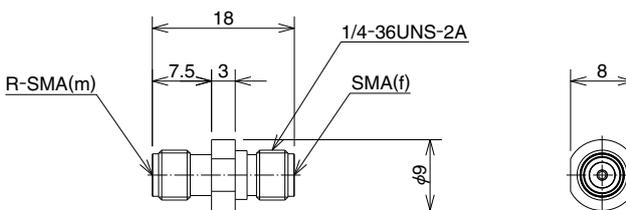
| Part No. | HRS No. | Remark |
|--------------|------------|-------------------------|
| HRMJ-SMA(R)P | 323-0035-0 | Shell : Stainless steel |

● SMA plug - RP-SMA jack



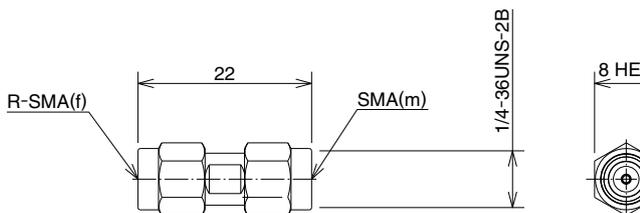
| Part No. | HRS No. | Remark |
|--------------|------------|-------------------------|
| HRMP-SMA(R)J | 323-0036-0 | Shell : Stainless steel |

● SMA jack - RP-SMA jack



| Part No. | HRS No. | Remark |
|--------------|------------|-------------------------|
| HRMJ-SMA(R)J | 323-0011-0 | Shell : Stainless steel |

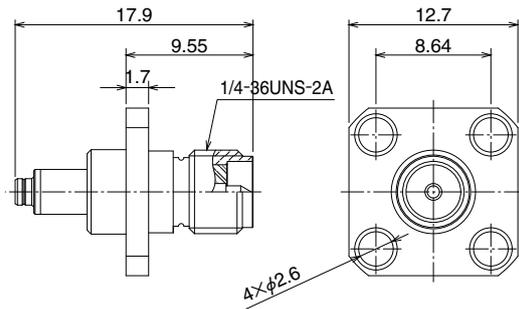
● SMA plug - RP-SMA plug



| Part No. | HRS No. | Remark |
|--------------|------------|-------------------------|
| HRMP-SMA(R)P | 323-0009-0 | Shell : Stainless steel |

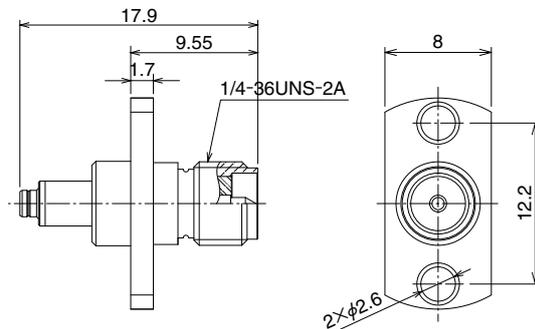
■ U.FL-J Conversion Adapters

● Panel adapter (Panel 4 hole)



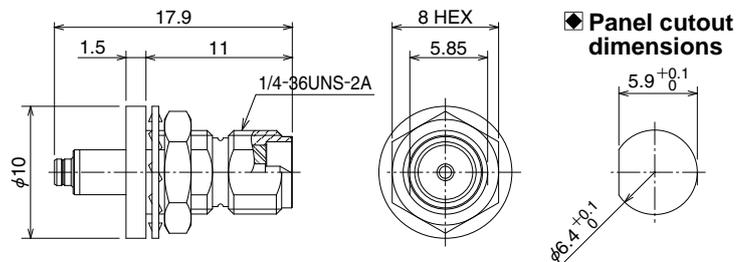
| Part No. | HRS No. | Remark |
|-------------------|------------|---------------|
| SMA(R)J-U.FLJ-PA4 | 311-0466-5 | Shell : Brass |

● Panel adapter (Panel 2 hole)



| Part No. | HRS No. | Remark |
|-------------------|------------|---------------|
| SMA(R)J-U.FLJ-PA2 | 311-0468-0 | Shell : Brass |

● Panel adapter (Bulkhead type)



| Part No. | HRS No. | Remark |
|---------------------|------------|---------------|
| SMA(R)J-U.FLJ-BPA-4 | 311-0464-0 | Shell : Brass |



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