

2.92mm Series

2.92mm Coaxial Connectors MIL Standard Compliant



Millimeter Wave



COAX 2.92mm



MIL Standard



Product Page
<https://www.hirose.com/en/product/compare?searchType=series&targets=2.92mm%2C2.92mm-TM>

Dec. 2025

Features

1. 2.92mm coaxial connector conforming to MIL-STD-348B Standard
2. Supports up to 40GHz frequency. Supports up to 43.5GHz frequency for evaluation board connector.
3. Board receptacle is screw-mounted
 - Provides excellent high frequency performance and consistent mounting quality
 - Reusable
 - Reduces mounting complexity (No Soldering is required)
 - Compatible with various PCB thicknesses
4. Field Replaceable connectors are suitable for RF modules in ruggedized applications
5. Cable harness uses 0.085 inch flexible cable
6. Terminator is also available.
7. RoHS2 compliant

Applications

Evaluation Board RF testing port use, radio communication equipment, measuring instruments, RF module, radio frequency power amplifier, high speed router, high speed switch, broadcasting equipment, etc.

Product Specifications

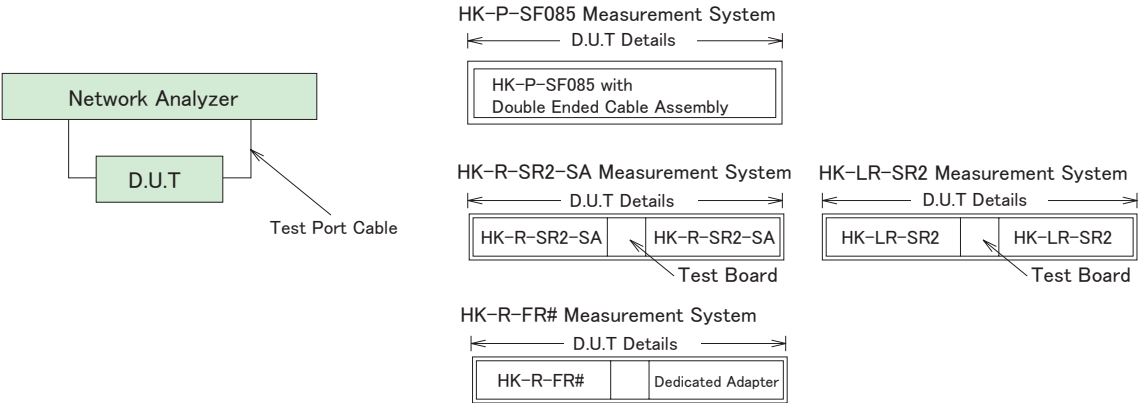
Nominal Characteristic Impedance	50 Ω	Operating Temperature	-55 to +105℃ (95% RH Max.)
Rated Frequency	0 to 40GHz	Storage Temperature Range	-55 to +50℃ (95% RH Max.)

Items	Specifications	Conditions
Contact Resistance	Center : 6m Ω Max. External : 2m Ω Max.	100mA Max.
Insulation Resistance	1,000M Ω Min.	100V DC
Withstanding Voltage	No breakdown	200V AC for 1 min.
V.S.W.R.*	● HK-P-SF085 V.S.W.R. : 1.15 Max. (0 to 18GHz) V.S.W.R. : 1.20 Max. (18 to 26.5GHz) V.S.W.R. : 1.30 Max. (26.5 to 40GHz)	
	● HK-R-SR2-SA V.S.W.R. : 1.5 Max. (0 to 43.5GHz)	
	● HK-LR-SR2-A V.S.W.R. : 1.3 Max. (0 to 30GHz) V.S.W.R. : 1.45 Max. (30 to 40GHz) V.S.W.R. : 1.55 Max. (40 to 43.5GHz)	
	● HK-R-FR#(##) V.S.W.R. : 1.3 Max. (0 to 43.5GHz)	
Mating Durability	Contact resistance Center : 8m Ω Max. External : 4m Ω Max. No broken, cracked, or loose parts	500 times
Vibration Resistance	No electrical discontinuity of 1 μ s. No broken, cracked, or loose parts	Frequency : 10 to 500Hz, half amplitude : 0.75mm, Acceleration : 196m/s ² , 10 cycles in each of the 3 axis
Shock Resistance	No electrical discontinuity of 1 μ s. No broken, cracked, or loose parts	Acceleration : 1960m/s ² , duration : 6ms, Wave form : half-sine wave, 3 times in each of the 3 axis
Moisture Resistance of Temperature/ Humidity Cycle	Insulation resistance : 100M Ω Min, (in a high humidity environment) Insulation resistance : 1000M Ω Min, (in a dry environment) No broken, cracked or loose parts	Left for 10 cycles (240 hours) in an environment with the temperature ranging from -10 to +65℃ and the humidity ranging from 90 to 96%.
Temperature Cycle	No broken, cracked or loose parts	5 cycles of the following test series condition : Temperature : -55℃ → - → +105℃ → - Time : 30 min. → 3 min. → 30 min. → 3 min.
Salt Spray	No considerable corrosion	Continuous 48 hour cycle in 5% salt water solution

(Note) Information contained in this catalog represents general requirements for this Series.
Contact us for the drawings and specifications for a specific part number shown.

*V.S.W.R. (Voltage Standing Wave Ratio) Measurement System

The above V.S.W.R. specification values were measured using the measurement system shown below.



Materials / Finish

Part	Materials	Finish
Shell	Stainless Steel / Brass	Passivated / Nickel Plated / Gold Plated
Insulator	PPO Resin / PTFE Resin / PEI Resin	—
Contact	Beryllium Copper	Gold Plated

Product Number Structure

Refer to the chart below when determining the product specifications from the product number.
Please select from the product numbers listed in this catalog when placing orders.

■ Plug (Cable Harness)

HK - 2P - MC1 - A - 6IN

① ② ③ ④

① Series Name	HK	③ Applicable Cable	0.085-inch, Flexible Cable
② Assembly Type	Double-ended Straight Plug Cable Assembly	④ Length (inch)	6, 12, 24, 36, 48, 60 inch

Note : Plugs can be ordered only as terminated cable assemblies.

■ Receptacle (For High Speed Transmission Evaluation Board)

HK - R - SR2 - SA (##)

① ② ③ ④ ⑤

① Series Name	HK	④ Other Specifications	Characters are added to indicate other specifications as needed.
② Connector Type	R : Vertical Mount Receptacle LR : End Launch Receptacle A : Adapter	⑤ Attached Screw	(00) : - (11) : 0-80UNF 1/4 inch (12) : 0-80UNF 3/16 inch (15) : 0-80UNF 1/4 + 3/16 inch
③ Board Mounting Method	PCB Screw Mounting		

■ Receptacle (Field Replaceable)

HK - R - FR# (##)

① ② ③ ④

① Series Name	HK	③ Board Mounting Method	FR2 : 2-hole Field Replaceable FR4 : 4-hole Field Replaceable
② Connector Type	R : Receptacle	④ Attached Screw Pitch	

Functional Diagram

Plug Side

■ Straight Plug
HK-P-SF085



Adapter

■ In-line Adapter

● Plug — Jack
HK-A-PJ



● Jack — Jack
HK-A-JJ



● Plug — Plug
HK-A-PP



■ Conversion Adapter

● SMP Jack — 2.92mm Jack
SMPJ-HKJ



● SMP Plug — 2.92mm Plug
SMPP(FD)-HKP
SMPP(SB)-HKP



Terminator

■ Plug
HK-TMP



Receptacle Side

■ PCB Vertical Launch Receptacle
HK-R-SR2-SA



■ PCB End Launch Receptacle
HK-LR-SR2
HK-LR-SR2-A



■ Field-replaceable Receptacle
HK-R-FR2



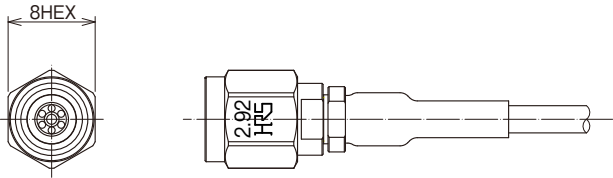
HK-R-FR4



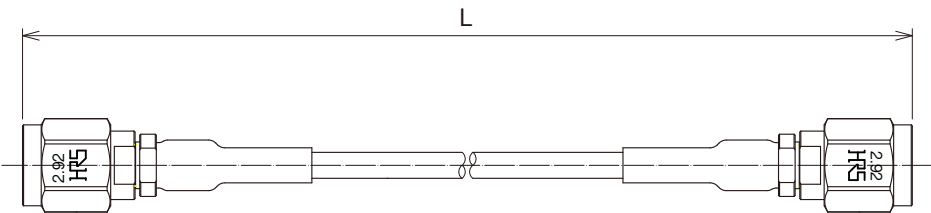
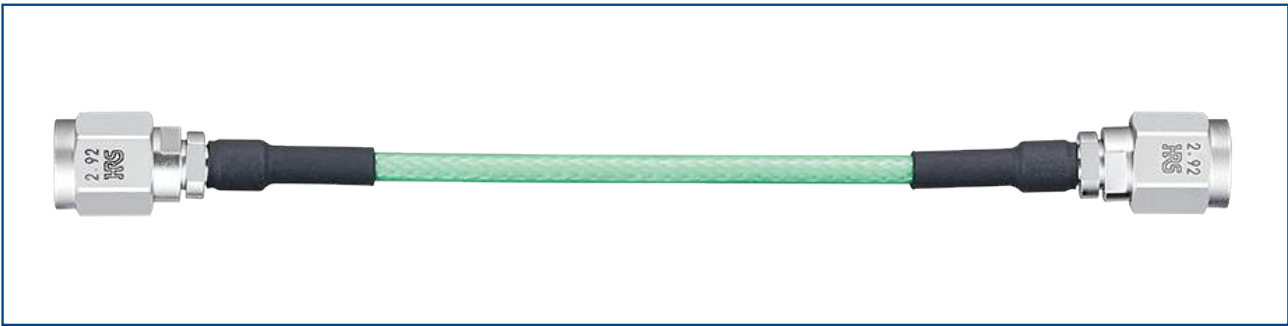
Plug

Plugs can be ordered only as terminated cable assemblies.

● HK-P-SF085



Cable Assembly (HK Straight Plug - HK Straight Plug)

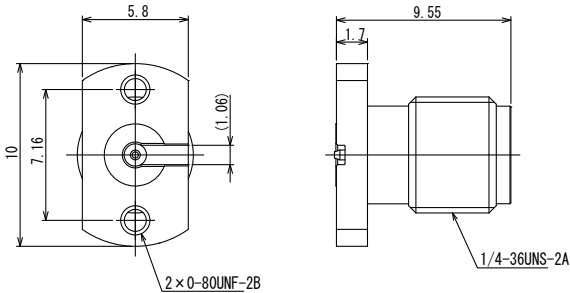


Part No.	HRS No.	Cable Assembly Length L Unit : inch	Cable Assembly Length L Unit : mm	Purchase Unit
HK-2P-MC1-A-6IN	CL0321-1934-0-05	6 ± 0.16	152.4 ± 4	20pcs per bag
HK-2P-MC1-A-12IN	CL0321-1934-0-10	12 ± 0.32	304.8 ± 8	
HK-2P-MC1-A-24IN	CL0321-1934-0-12	24 ± 0.48	609.6 ± 12	
HK-2P-MC1-A-36IN	CL0321-1934-0-13	36 ± 0.48	914.4 ± 12	
HK-2P-MC1-A-48IN	CL0321-1934-0-14	48 ± 0.71	1219.2 ± 18	
HK-2P-MC1-A-60IN	CL0321-1934-0-15	60 ± 0.87	1524.0 ± 22	

PCB Vertical Mount Receptacle (For High Speed Transmission Evaluation Board)

This product is a solderless mounted connector for prototype evaluation of high speed transmission boards.
It is not recommended for use in actual commercial equipment.

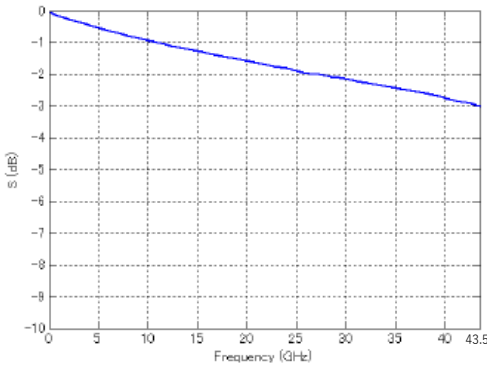
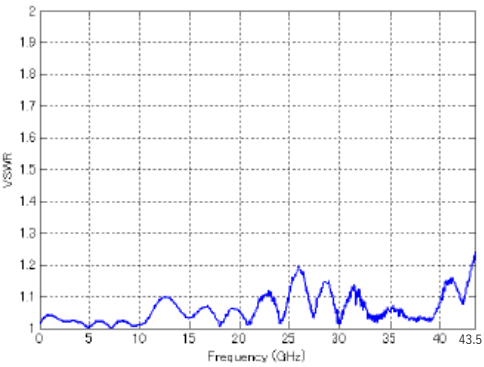
Inner Layer, Back Surface, Top Surface Trace Type



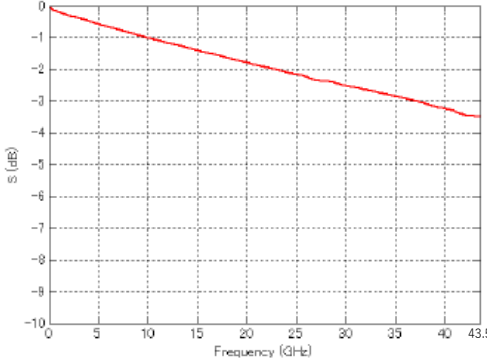
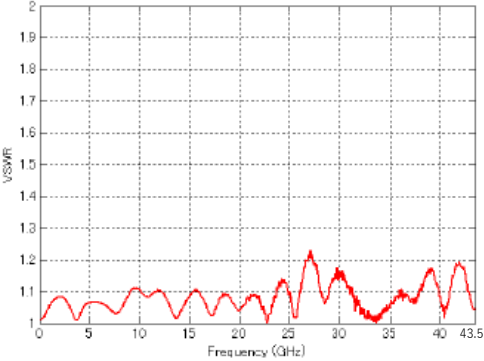
Part No.	HRS No.	Attached Screw	Purchase Unit
HK-R-SR2-SA	CL0338-0028-0-00	-	20pcs per bag
HK-R-SR2-SA(15)	CL0338-0028-0-15	0-80UNF 1/4 + 3/16 inch	

◆Frequency Characteristics (TYPICAL)

Surface
Substrate



Inner
Substrate



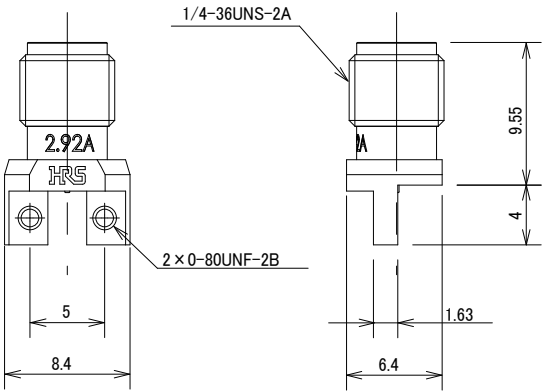
*Coplaner line length between both connector ends : 25mm

PCB End Launch Receptacle (For High Speed Transmission Evaluation Board)

This product is a solderless mounted connector for prototype evaluation of high speed transmission boards.
It is not recommended for use in actual commercial equipment.



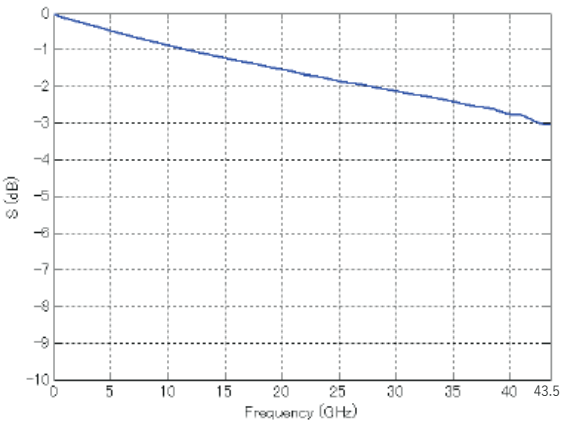
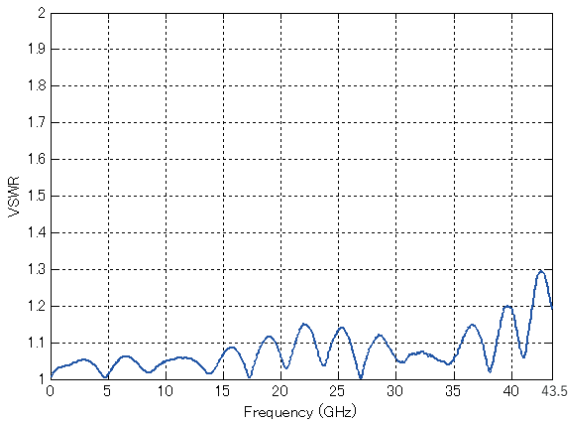
Supports up to 43.5GHz frequency



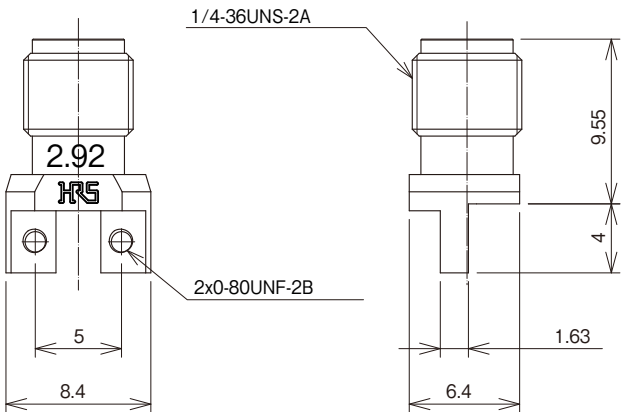
Part No.	HRS No.	Attached Screw	Purchase Unit
HK-LR-SR2-A	CL0338-0015-0-00	-	20pcs per bag
HK-LR-SR2-A(11)	CL0338-0015-0-11	0-80UNF 1/4 inch	
HK-LR-SR2-A(12)	CL0338-0015-0-12	0-80UNF 3/16 inch	

◆Frequency Characteristics (TYPICAL)

HK-LR-SR2-A

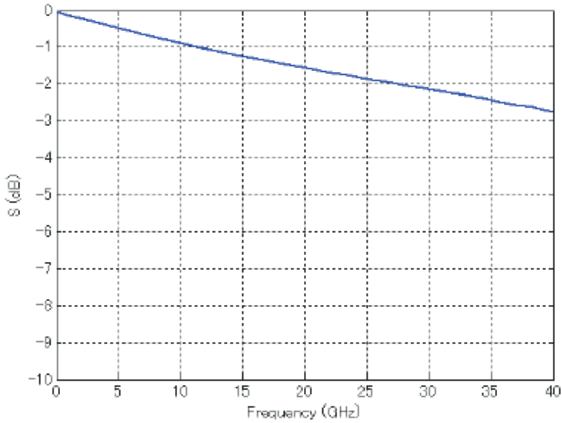
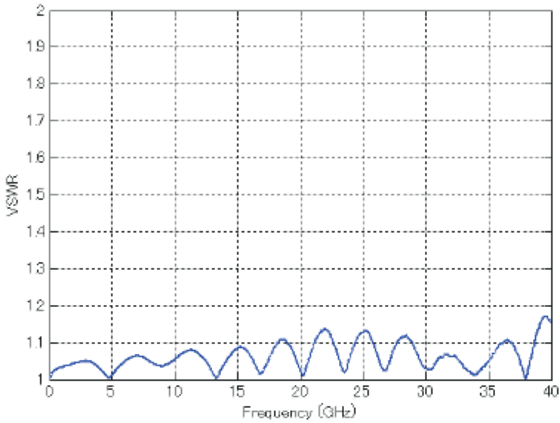


*Coplaner line length between both connector ends : 25mm



Part No.	HRS No.	Attached Screw	Purchase Unit
HK-LR-SR2	CL0338-0079-0-00	-	20pcs per bag
HK-LR-SR2(11)	CL0338-0079-0-11	0-80UNF 1/4 inch	
HK-LR-SR2(12)	CL0338-0079-0-12	0-80UNF 3/16 inch	

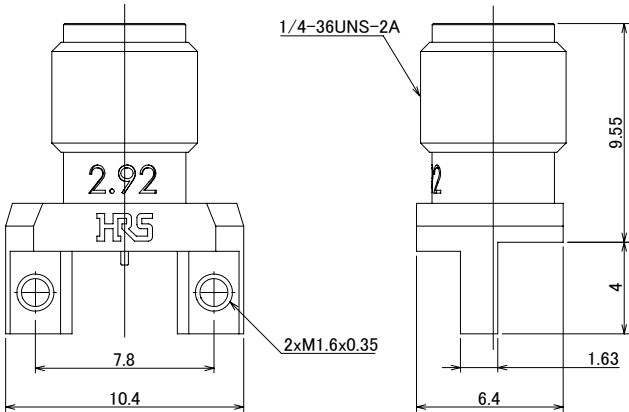
◆Frequency Characteristics (TYPICAL)
HK-LR-SR2



*Coplaner line length between both connector ends : 25mm

PCB End Launch Receptacle

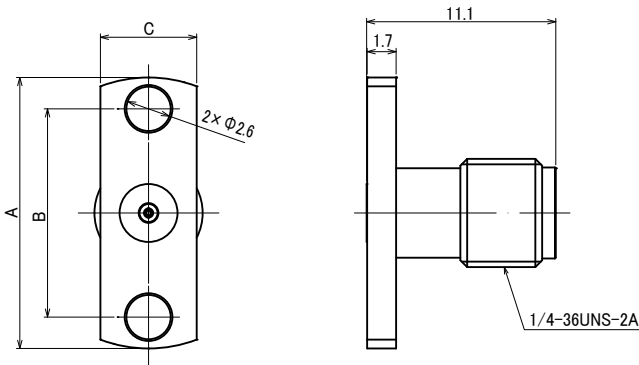
This is a connector for PCB, where the center pin is soldered and the outer conductor is mounted with screws.



Part No.	HRS No.	Attached Screw	Purchase Unit
HK-LR-EL	CL0338-0005-0-00	-	20pcs per bag

Field Replaceable Receptacle (for a 0.23/9mil pin)

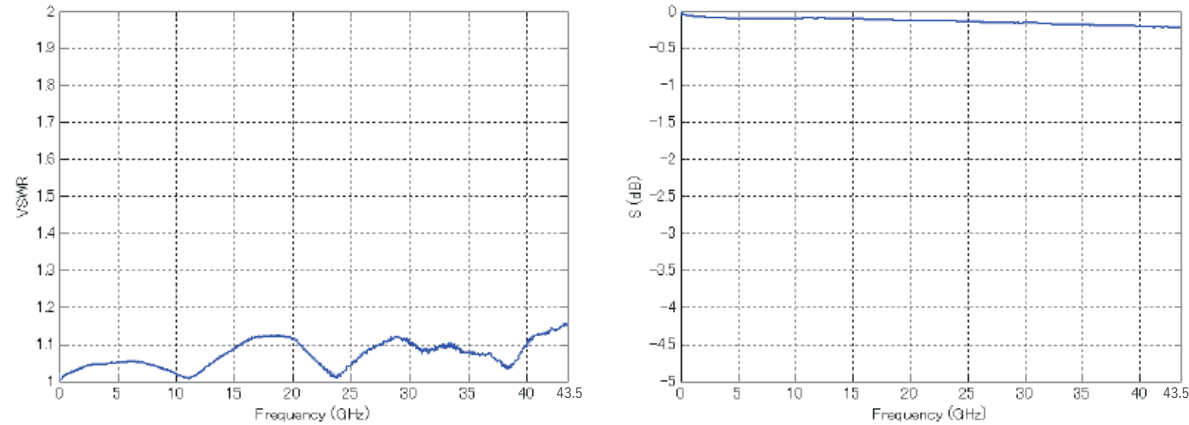
●Panel Jack (2 Screws Type)



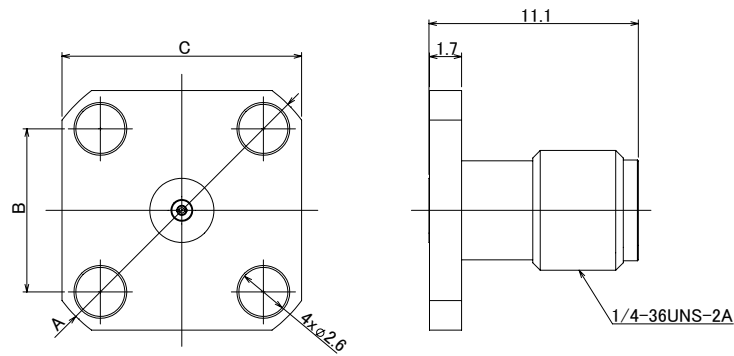
Unit : mm

Part No.	HRS No.	A	B	C	Purchase Unit
HK-R-FR2(9.02)	CL0338-0043-0-00	12.7	9.02	4.85	20pcs per bag
HK-R-FR2(10.16)	CL0338-0025-0-00	14	10.16	4.85	
HK-R-FR2(12.22)	CL0338-0031-0-00	15.9	12.22	5.65	

◆Frequency Characteristics (TYPICAL)



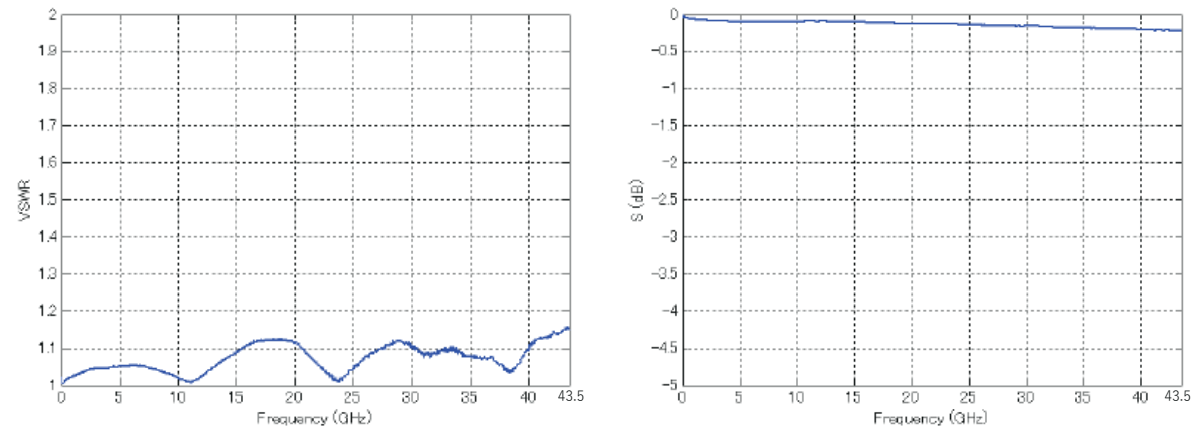
●Panel Jack(4 Screws Type)



Unit : mm

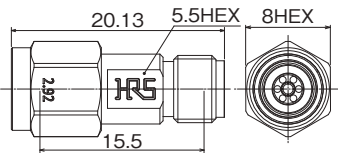
Part No.	HRS No.	A	B	C	Purchase Unit
HK-R-FR4(8.64)	CL0338-0037-0-00	15.9	8.64	12.7	20pcs per bag

◆Frequency Characteristics (TYPICAL)



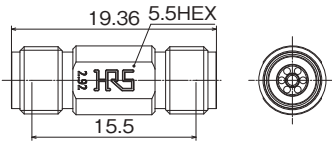
In-line Adapter

Straight Adapter
Mated Portion: Plug – Jack



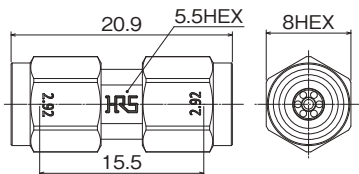
Part No.	HRS No.	Purchase Unit
HK-A-PJ	CL0338-0097-0-00	20pcs per bag

Mated Portion: Jack – Jack



Part No.	HRS No.	Purchase Unit
HK-A-JJ	CL0338-0098-0-00	20pcs per bag

Mated Portion: Plug – Plug



Part No.	HRS No.	Purchase Unit
HK-A-PP	CL0338-0099-0-00	20pcs per bag

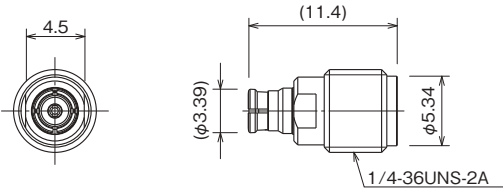
V.S.W.R. (Max.) (All in-line adapters have the same value.)

0 to 18GHz	18 to 26.5GHz	26.5 to 40GHz
1.1	1.15	1.2

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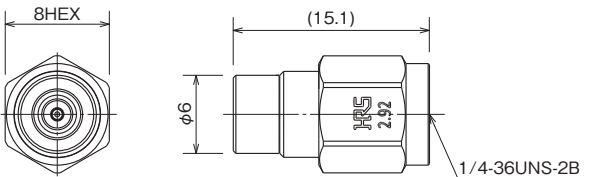
Conversion Adapter

SMP Jack – 2.92mm Jack
(0 to 40GHz)



Part No.	HRS No.	Purchase Unit
SMPJ-HKJ	CL0311-0013-0-00	20pcs per bag

SMP Plug – 2.92mm Plug
(0 to 40GHz)



Part No.	HRS No.	Purchase Unit
SMPP(FD)-HKP	CL0311-0199-0-00	20pcs per bag
SMPP(SB)-HKP	CL0311-1001-0-00	

Note : Insertion / Extraction Force
FD : FULL DETENT
SB : SMOOTH BORE

V.S.W.R. (Max.) (All conversion adapters have the same value.)

0 to 10GHz	10 to 30GHz	30 to 40GHz
1.15	1.25	1.38

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Precautions

1. The diameter of the center contact pin is only $\phi 0.92\text{mm}$.
Please handle with care. When mating the component with the corresponding connector, rotate the hex part only.
2. If any dust is found on the shell interface when mating the components, please wipe with alcohol.

While Taking into Consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please review the Drawing and Product Specifications sheets.

Use an appropriate cable when using the connector in combination with cables.

If considering usage of a non-specified cable, please contact your sales representative.

If assembly process is done by jigs & tools which are not identified by Hirose, the warranty of the product may be affected.

If considering usage for below mentioned applications, please contact your sales representative.

In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/defense etc. Hirose must review before assurance of reliability can be given.

HIROSE**HIROSE ELECTRIC CO.,LTD.**2-6-3 Nakagawa Chuoh, Tsuzuki-Ku, Yokohama-Shi 224-8540, JAPAN
<https://www.hirose.com>

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2.92mm-TM Series

2.92mm Coaxial Connectors

MIL Standard Compliant/Non-reflective Terminator



Mis-Insert Prevention



Coax Arrestor



Features

1. Non-reflective Terminator
Supporting 0 to 40GHz
2. Small Size, Light Weight
3. Low V.S.W.R.& High Reliability
4. MIL Compliant
(MIL-STD-348B)
2.92mm Coaxial Terminator

Applications

Optical transmission devices, data transmission measurement, radio communication equipment, measuring instruments, other high frequency devices, etc.

Product Specifications

Nominal Characteristic Impedance	50 Ω	Operating Temperature	-40 to +85℃
Rated Frequency	0 to 40GHz	Operating Relative Humidity	95% RH Max.
Power	0.5W CW (+75℃)		

Materials / Finish

Component	Material	Finish
Shell	Stainless Steel	Passivate
Insulator	PTFE Resin	-
Male Contact	Brass	Gold Plating
Coupling	Stainless Steel	Passivate
Resistive Element	Metal Film	-

Product Number Structure

HK

-

TM

P

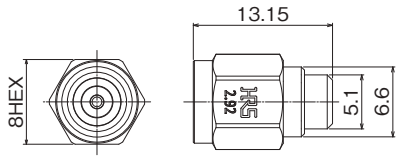
①

②

③

① Series Name	HK	③ Connector Type	P : Plug Type
② TM	Non-reflective Terminator		

Terminator

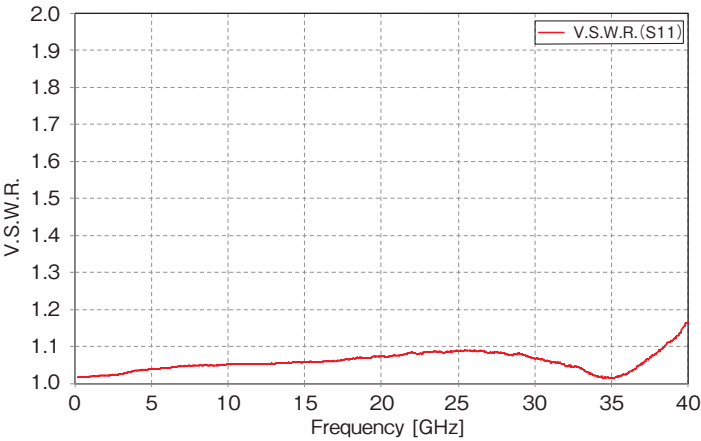


Part No.	HRS No.	Purchase Unit
HK-TMP	CL0353-0014-0-00	1pc per bag

V.S.W.R. (Max.)

0 to 10GHz	10 to 20GHz	20 to 35GHz	35 to 40GHz
1.1	1.15	1.18	1.28

◆Frequency Characteristics (TYPICAL)



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