

1.85mm Series

1.85mm Coaxial Connectors IEC Standard Compliant



Millimeter Wave



COAX 1.85mm



IEC Standard



Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

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Features

1. IEC standard compliant
1.85mm coaxial connector
(IEC 61169-32)
2. Supports up to 65GHz frequency
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. 0.085 inch flexible cable applicable
5. Terminator is also available.
6. RoHS2 compliant

Applications

Data transmission measurement, radio communication equipment, measuring instruments, RF module, radio frequency power amplifier, high speed router, high speed switch, broadcasting equipment, etc.

Product Specifications

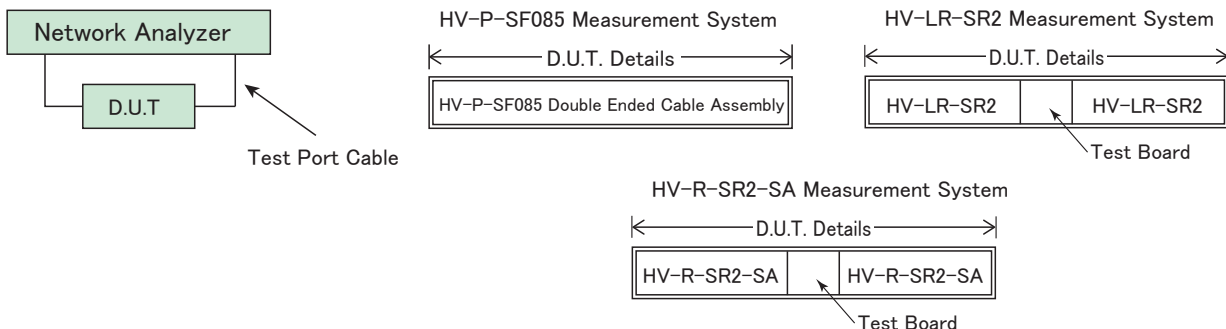
Nominal Characteristic Impedance	50 Ω	Operating Temperature	-55 to +105°C (95% RH Max.)
Rated Frequency	0 to 65GHz	Storage Temperature Range	-55 to +50°C (95% RH Max.)

Items	Specifications	Conditions
Contact Resistance	Center : 4m Ω Max. External : 2m Ω Max.	Measured at 100mA Max.
Insulation Resistance	1000M Ω Min.	Measured at 100V DC
Withstanding Voltage	No breakdown	200V AC for 1 min.
V.S.W.R.*	● HV-P-SF085 V.S.W.R. : 1.35 Max. (0 to 40GHz) V.S.W.R. : 1.45 Max. (40 to 67GHz)	
	● HV-LR-SR2 V.S.W.R. : 1.5 Max. (0 to 65GHz)	
	● HV-R-SR2-SA V.S.W.R. 1.5 Max. (0 to 50GHz) V.S.W.R. 1.8 Max. (50 to 67GHz)	
Mating Durability	Contact resistance Center : 6m Ω Max. External : 4m Ω Max. No broken, cracked, or loose parts	500 times
Vibration Resistance	No electrical discontinuity for more than 1 μ s. No broken, cracked, or loose parts	Frequency : 10 to 500Hz, half amplitude : 0.75mm, Acceleration : 196m/s ² , 12 cycles in each of the 3 axis
Shock Resistance	No electrical discontinuity for more than 1 μ s. No broken, cracked, or loose parts	Acceleration : 980m/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°C and the humidity ranging from 90 to 98%.
Temperature Cycle	No broken, cracked or loose parts	5 cycles of the following test series condition : Temperature : -55°C $\rightarrow$ -°C $\rightarrow$ +105°C $\rightarrow$ -°C Time : 30 min. $\rightarrow$ 3 min. $\rightarrow$ 30 min. $\rightarrow$ 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 / Gold Plated / Nickel Plated
Insulator	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.

■ Plug

HV - 2P - IW - A - 6IN

①

②

③

④

① Series Name	HV	③ Cable Type	SF085 : 0.085 inch, Flexible Cable IW : 0.085 inch, Flexible Cable
② Connector Type	P : Straight Plug 2P : Double-ended Straight Plug Cable Assembly	④ Total Length (inch)	6, 12, 24, 36, 48 inch

■ Receptacle

HV - LR - SR2 (##)

①

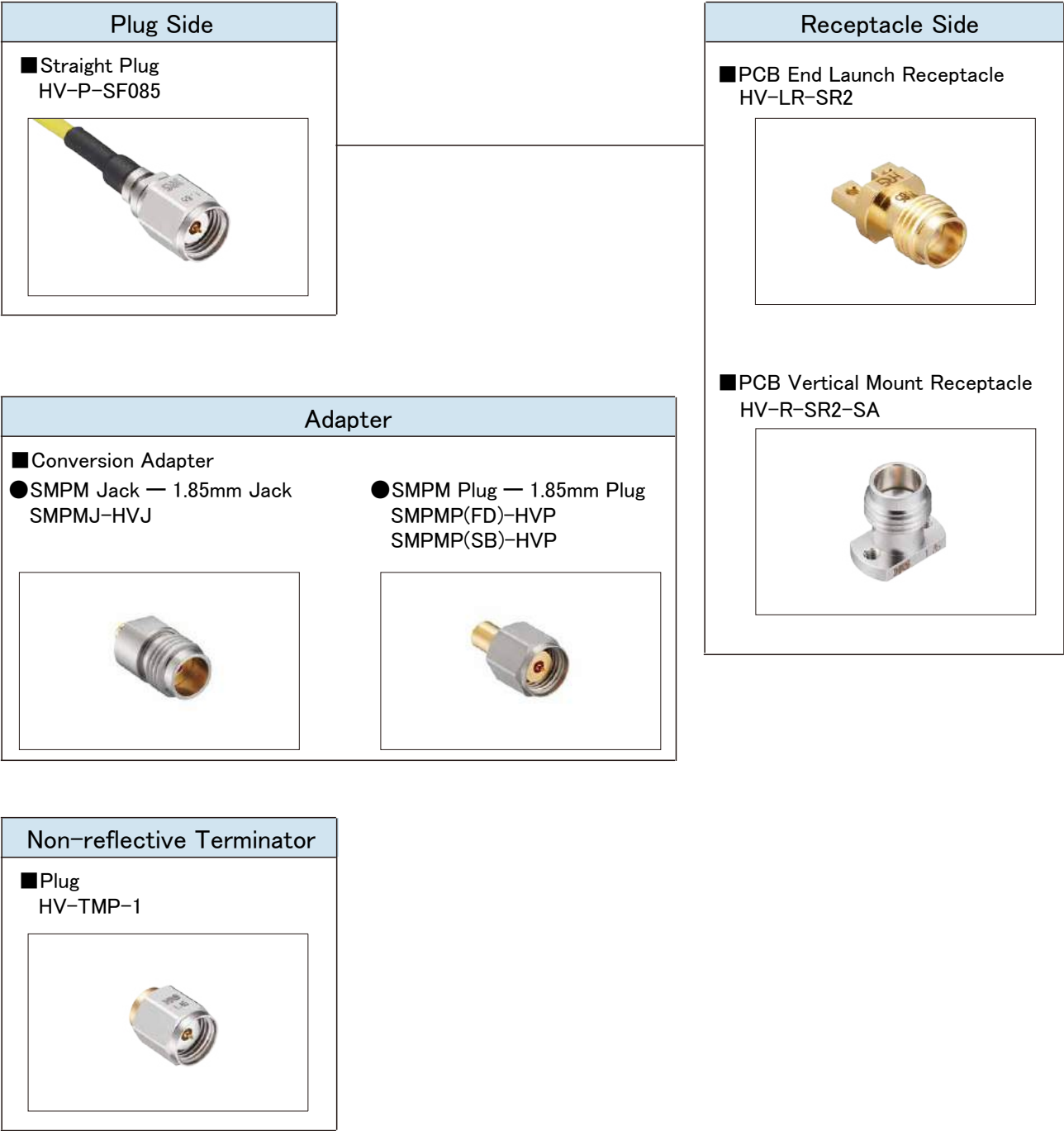
②

③

④

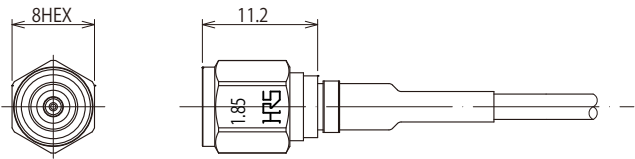
① Series Name	HV	③ Board Mounting Method	PCB Screw Mounting
② Connector Type	LR : End Launch Receptacle R : Receptacle	④ Attached Screw	(00) : - (11) : 0-80UNF 1/4 inch (12) : 0-80UNF 3/16 inch (15) : 0-80UNF 1/4 + 3/16 inch

Functional Diagram



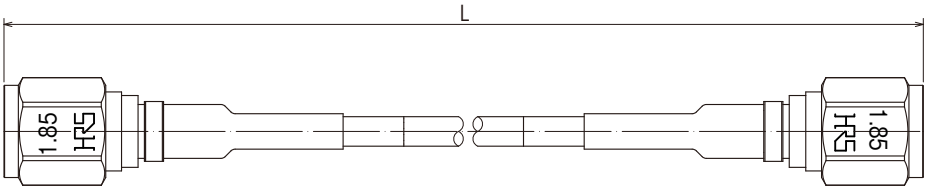
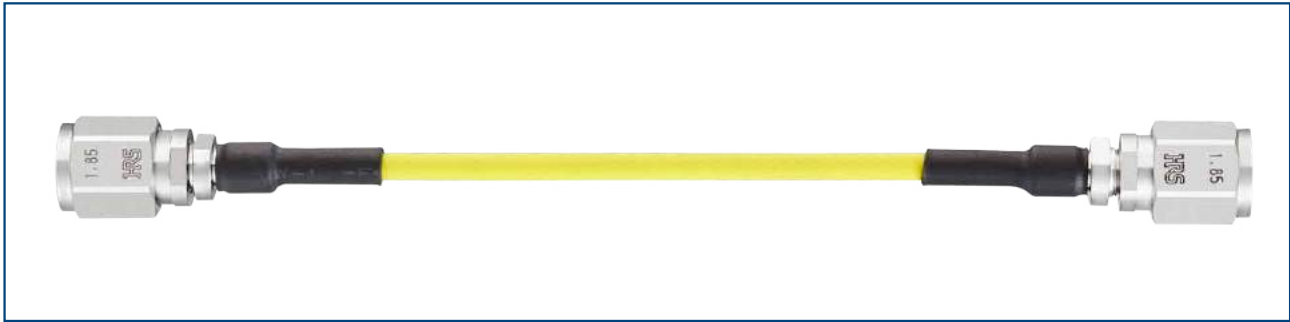
Plug

Please contact Hirose for assembly of cables.



Part No.	HRS No.	Purchase Unit
HV-P-SF085	CL0338-0089-0-00	20pcs per bag

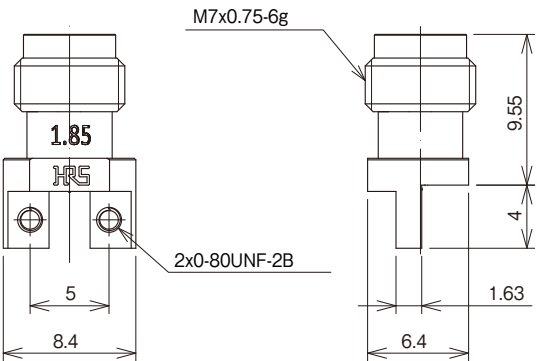
Cable Assembly (HV Straight Plug - HV Straight Plug)



Part No.	HRS No.	Cable Assembly Length L : inch	Cable Assembly Length L : mm	Purchase Unit
HV-2P-IW-A-6IN	CL0321-6633-0-01	6 ± 0.16	152.4 ± 4	20pcs per bag
HV-2P-IW-A-12IN	CL0321-6633-0-02	12 ± 0.32	304.8 ± 8	
HV-2P-IW-A-24IN	CL0321-6633-0-03	24 ± 0.48	609.6 ± 12	
HV-2P-IW-A-36IN	CL0321-6633-0-04	36 ± 0.48	914.4 ± 12	10pcs per bag
HV-2P-IW-A-48IN	CL0321-6633-0-05	48 ± 0.71	1219.2 ± 18	

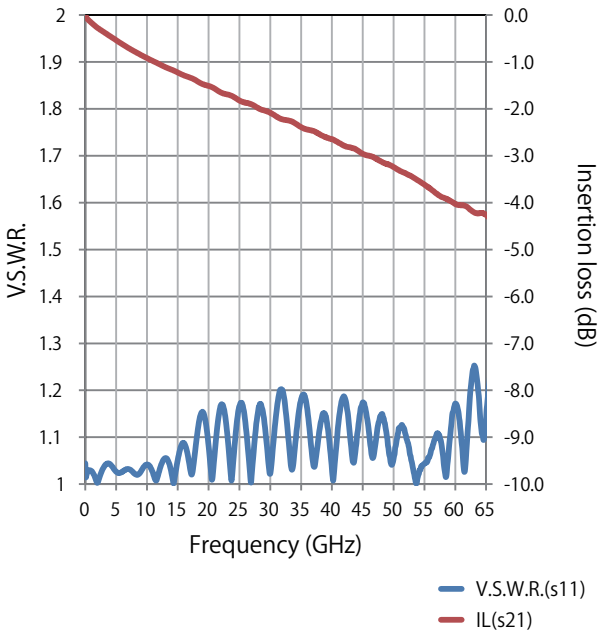
PCB End Launch Receptacle (For High Speed Transmission Evaluation Board)

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.



Part No.	HRS No.	Attached Screw	Purchase Unit
HV-LR-SR2	CL0338-0018-0-00	-	20pcs per bag
HV-LR-SR2(11)	CL0338-0018-0-11	0-80UNF 1/4 inch	
HV-LR-SR2(12)	CL0338-0018-0-12	0-80UNF 3/16 inch	

◆Frequency Characteristics (TYPICAL)

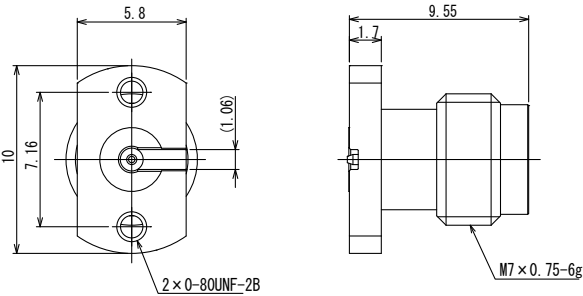


*Coplaner line length between both connector ends : 25mm

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

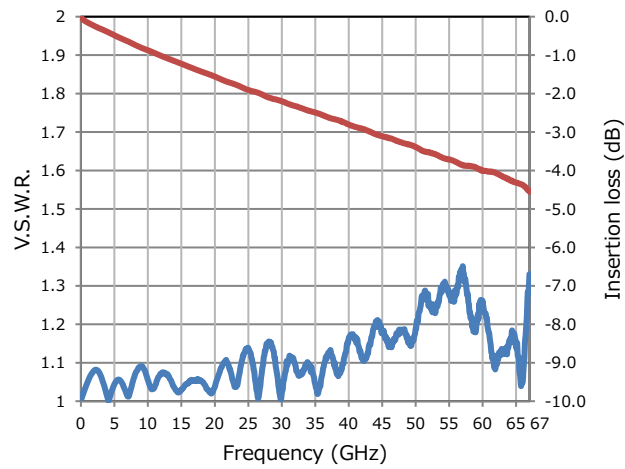
This product is a solderless mounted connector for prototype evaluation of high speed transmission boards. It is not recommended for use in actual commercial equipment.

●Inner Layer, Back Surface, Top Surface Trace Type



Part No.	HRS No.	Attached Screw	Purchase Unit
HV-R-SR2-SA	CL0338-0030-0-00	-	20pcs per bag
HV-R-SR2-SA(15)	CL0338-0030-0-15	0-80UNF 1/4 + 3/16 inch	

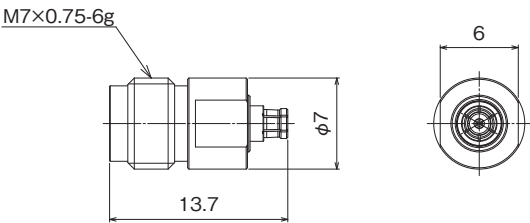
◆Frequency Characteristics (TYPICAL)



*Coplaner line length between both connector ends : 25mm

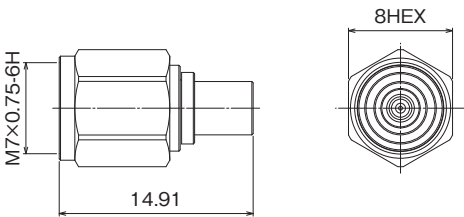
Conversion Adapter

HV Conversion Adapter (Mated Portion : SMPM Side : Jack, HV Side : Jack)



Part No.	HRS No.	Purchase Unit
SMPMJ-HVJ	CL0311-0421-7-00	20pcs per bag

HV Conversion Adapter (Mated Portion : SMPM Side : Plug, HV Side : Plug)



Part No.	HRS No.	Purchase Unit
SMPMP(FD)-HVP	CL0311-0419-5-00	20pcs per bag
SMPMP(SB)-HVP	CL0311-0420-4-00	

1.85mm-TM Series

1.85mm Coaxial Connectors

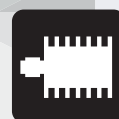
IEC Standard Compliant/Non-Reflective Terminator



Millimeter Wave



COAX 1.85mm



Terminator



Features

1. Non-reflective Terminator
Supporting 0 to 65GHz
2. Small Size, Light Weight
3. Low V.S.W.R. & High Reliability
4. IEC Standard Compliant
1.85mm Coaxial Terminator
(IEC 61169-32)

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 65GHz	Operating Relative Humidity	95% RH Max.
Power	0.5W CW (+65℃)		

(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.

Materials / Finish

Part	Materials	Finish
Shell	Stainless Steel / Brass	Passivated / Gold Plated
Insulator	PTFE Resin	-
Male Contact	Brass	Gold Plated
Coupling	Stainless Steel	Passivated
Resistive Element	Metal Film	-

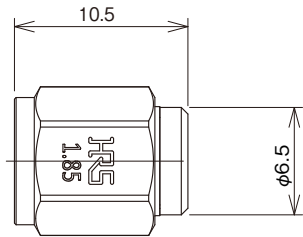
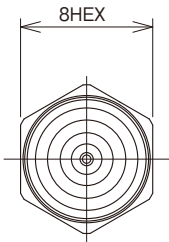
Product Number Structure

Refer to the chart below when determining the product specifications from the product number.

HV - TM P - 1
① ② ③

① Series Name	HV	② TM	Non-Reflective Terminator
		③ Connector Type	P : Plug Type

Terminator

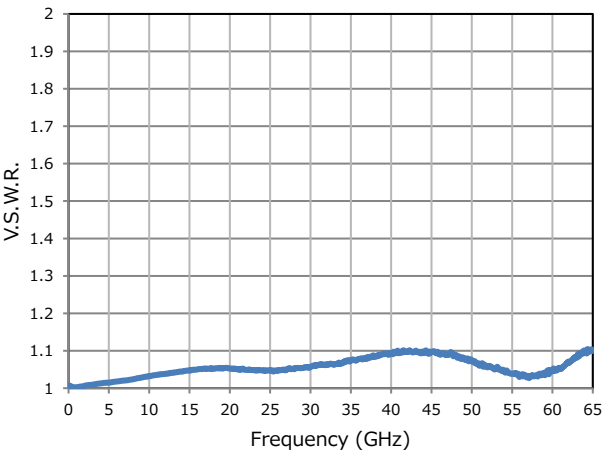


Part No.	HRS No.	Purchase Unit
HV-TMP-1	CL0353-0025-0-00	1pc per bag

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

0 to 20GHz	20 to 60GHz	60 to 65GHz
1.15	1.25	1.35

◆Frequency Characteristics (TYPICAL)



2.4mm Series

2.4mm Coaxial Connectors MIL Standard Compliant



Millimeter Wave



COAX 2.4mm



MIL Standard



Features

1. 2.4mm coaxial connector conforming to MIL-STD-348B Standard

2. Supports up to 50GHz frequency

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. 0.085 inch flexible cable applicable

5. Terminator is also available.

6. RoHS2 compliant

Applications

Data transmission measurement, radio communication equipment, measuring instruments, RF module, radio frequency power amplifier, high speed router, high speed switch, broadcasting equipment, etc.

Product Specifications

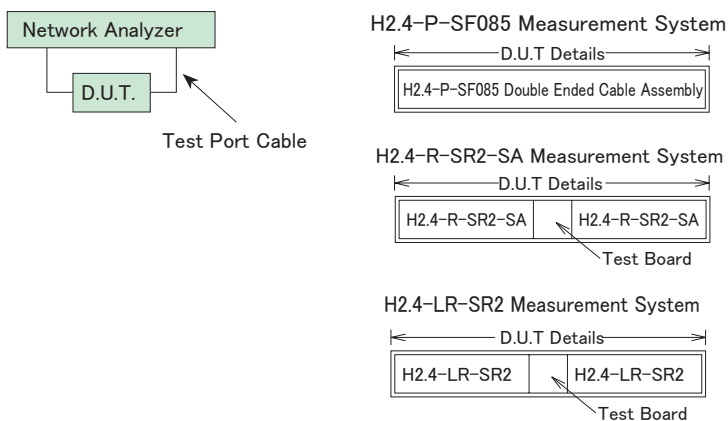
Nominal Characteristic Impedance	50 Ω	Operating Temperature	-55 to +105°C (95% RH Max.)
Rated Frequency	0 to 50GHz	Storage Temperature Range	-55 to +50°C (95% RH Max.)

Items	Specifications	Conditions
Contact Resistance	Center : 4m Ω Max. External : 2m Ω Max.	Measured at 100mA Max.
Insulation Resistance	1000M Ω Min.	Measured at 100V DC
Withstanding Voltage	No breakdown	200V AC for 1 min.
V.S.W.R.*	● H2.4-P-SF085 V.S.W.R. 1.35 Max. (0 to 40GHz) V.S.W.R. 1.45 Max. (40 to 50GHz)	
	● H2.4-LR-SR2 V.S.W.R. 1.3 Max. (0 to 40GHz) V.S.W.R. 1.4 Max. (40 GHz to 50GHz)	
	● H2.4-R-SR2-SA V.S.W.R. 1.5 Max. (0 to 50GHz)	
Mating Cycles	Contact resistance Center : 6m Ω Max. External : 4m Ω Max. No broken, cracked, or loose parts	500 cycles
Vibration Resistance	No electrical discontinuity greater than 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 greater than 1 μ s. No broken, cracked, or loose parts	Acceleration : 980m/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°C and the humidity ranging from 90 to 98%.
Temperature Cycle	No broken, cracked, or loose parts	5 cycles of the following test series condition : Temperature : -55°C → - → +105°C → - 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	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.

Receptacle

H2.4 - LR - SR2 (##)

① ② ③ ④

① Series Name	H2.4	③ Board Mounting Method	PCB Screw Mounting
② Connector Type	LR : End Launch Receptacle R : Receptacle	④ Attached Screw	(00) : - (11) : 0-80UNF 1/4 inch (12) : 0-80UNF 3/16 inch (15) : 0-80UNF 1/4 + 3/16 inch

Cable Assembly

H2.4 - 2P - SF085MC1 - A - 6IN

① ② ③ ④

① Series Name	H2.4	③ Cable Type	0.085 inch, Flexible Cable
② Assembly Type	Double-ended Straight Plug Cable Assembly	④ Total Length (inch)	6, 12, 24, 36, 48, 60 inch

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

Functional Diagram

Plug Side

■ Straight Plug
H2.4-P-SF085



Receptacle Side

■ PCB Vertical Launch Receptacle
H2.4-R-SR2-SA



Non-Reflective Terminator

■ Plug
H2.4-TMP



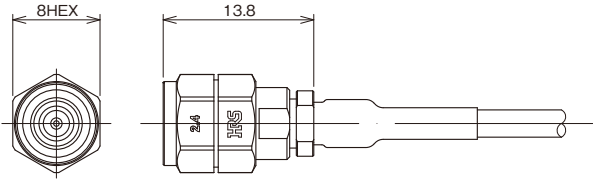
■ PCB End Launch Receptacle
H2.4-LR-SR2



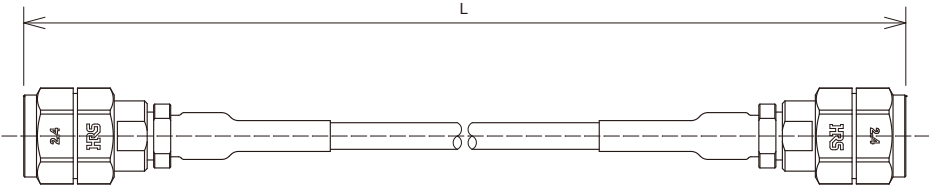
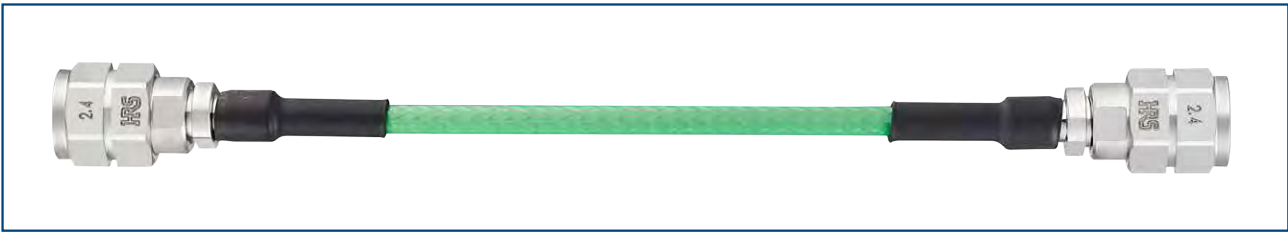
Plug

Plugs can be ordered only as terminated cable assemblies.

● H2.4-P-SF085



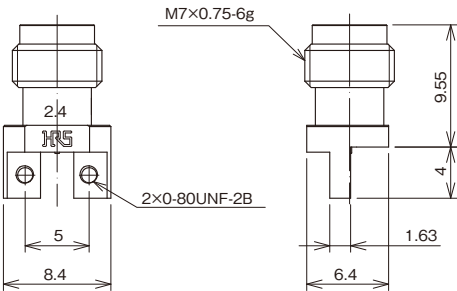
Cable Assembly (H2.4 Straight Plug - H2.4 Straight Plug)



Part No.	HRS No.	Cable Assembly Length L		Purchase Unit
		Unit : inch	Unit : mm	
H2.4-2P-SF085MC1-A-6IN	CL0321-5132-0-01	6 ± 0.16	152.4 ± 4	20pcs per bag
H2.4-2P-SF085MC1-A-12IN	CL0321-5132-0-02	12 ± 0.32	304.8 ± 8	
H2.4-2P-SF085MC1-A-24IN	CL0321-5132-0-03	24 ± 0.48	609.6 ± 12	
H2.4-2P-SF085MC1-A-36IN	CL0321-5132-0-04	36 ± 0.48	914.4 ± 12	
H2.4-2P-SF085MC1-A-48IN	CL0321-5132-0-05	48 ± 0.71	1219.2 ± 18	
H2.4-2P-SF085MC1-A-60IN	CL0321-5132-0-06	60 ± 0.87	1524.0 ± 22	

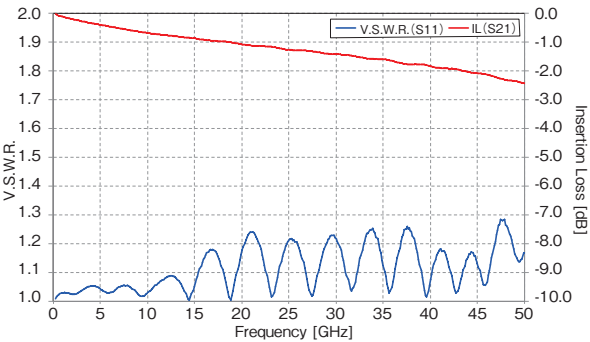
PCB End Launch Receptacle (For High Speed Transmission Evaluation Board)

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.



Part No.	HRS No.	Attached Screw	Purchase Unit
H2.4-LR-SR2	CL0338-0603-0-00	-	20pcs per bag
H2.4-LR-SR2(11)	CL0338-0603-0-11	0-80UNF 1/4 inch	
H2.4-LR-SR2(12)	CL0338-0603-0-12	0-80UNF 3/16 inch	

◆Frequency Characteristics (TYPICAL)

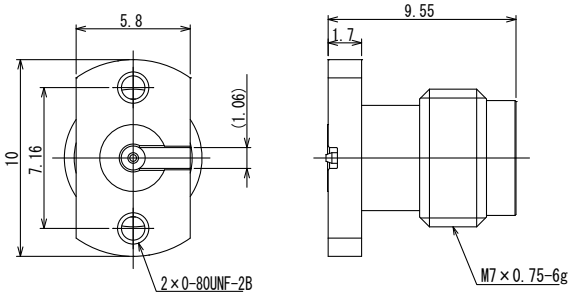


*Coplaner line length between both connector ends : 20mm

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

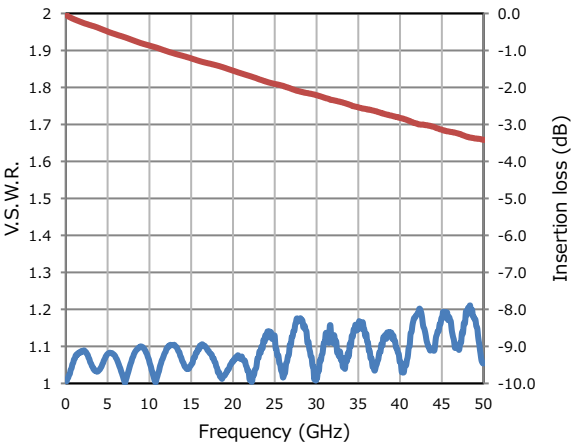
This product is a solderless mounted connector for prototype evaluation of high speed transmission boards. It is not recommended for use in actual commercial equipment.

●Inner Layer, Back Surface, Top Surface Trace Type



Part No.	HRS No.	Attached Screw	Purchase Unit
H2.4-R-SR2-SA	CL0338-0029-0-00	-	20pcs per bag
H2.4-R-SR2-SA(15)	CL0338-0029-0-15	0-80UNF 1/4 + 3/16 inch	

◆Frequency Characteristics (TYPICAL)



*Coplaner line length between both connector ends : 25mm

2.4mm-TM Series

2.4mm Coaxial Connectors

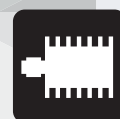
MIL Standard Compliant/Non-Reflective Terminator



Millimeter Wave



COAX 2.4mm



Terminator



Features

1. Non-reflective Terminator
Supporting 0 to 50GHz
2. Small Size, Light Weight
3. Low V.S.W.R. & High Reliability
4. MIL Compliant
(MIL-STD-348B) 2.4mm
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°C
Rated Frequency	0 to 50GHz	Operating Relative Humidity	95% RH Max.
Power	0.5W CW (+65°C)		

Materials / Finish

Part	Materials	Finish
Shell	Stainless Steel / Brass	Passivated / Gold Plated / Nickel Plated
Insulator	PTFE Resin	—
Male Contact	Brass	Gold Plated
Coupling	Stainless Steel	Passivated
Resistive Element	Metal Film	—

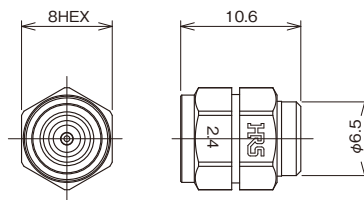
Product Number Structure

H2.4 - TM P

① ② ③

① Series Name	H2.4	③ Connector Type	P : Plug Type
② TM	Non-reflective Terminator		

Terminator

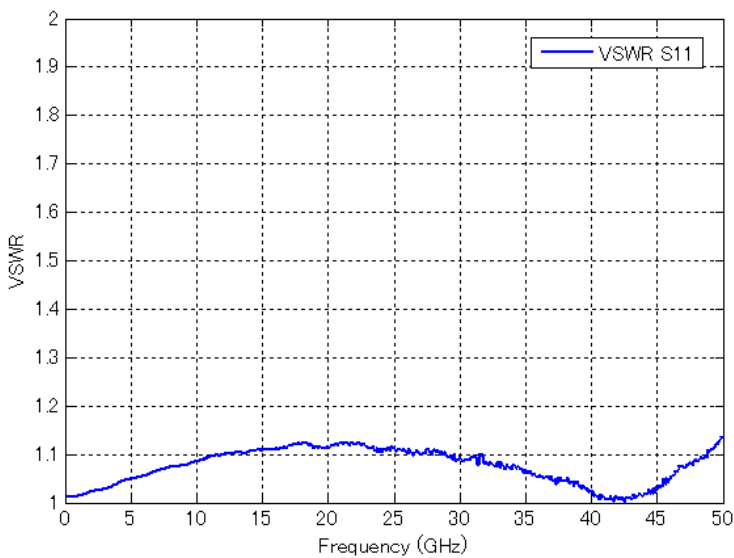


Part No.	HRS No.	Purchase Unit
H2.4-TMP	CL0353-0174-0-00	1pc per bag

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

0 to 50GHz
1.2

◆Frequency Characteristics (TYPICAL)



2.4mm Series

2.4mm Coaxial Connectors MIL Standard Compliant



Millimeter Wave



COAX 2.4mm



MIL Standard



Features

1. 2.4mm coaxial connector conforming to MIL-STD-348B Standard

2. Supports up to 50GHz frequency

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. 0.085 inch flexible cable applicable

5. Terminator is also available.

6. RoHS2 compliant

Applications

Data transmission measurement, radio communication equipment, measuring instruments, RF module, radio frequency power amplifier, high speed router, high speed switch, broadcasting equipment, etc.

Product Specifications

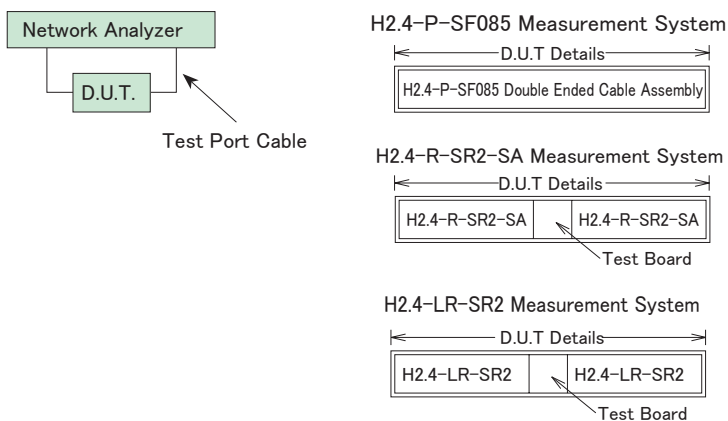
Nominal Characteristic Impedance	50 Ω	Operating Temperature	-55 to +105°C (95% RH Max.)
Rated Frequency	0 to 50GHz	Storage Temperature Range	-55 to +50°C (95% RH Max.)

Items	Specifications	Conditions
Contact Resistance	Center : 4m Ω Max. External : 2m Ω Max.	Measured at 100mA Max.
Insulation Resistance	1000M Ω Min.	Measured at 100V DC
Withstanding Voltage	No breakdown	200V AC for 1 min.
V.S.W.R.*	● H2.4-P-SF085 V.S.W.R. 1.35 Max. (0 to 40GHz) V.S.W.R. 1.45 Max. (40 to 50GHz)	
	● H2.4-LR-SR2 V.S.W.R. 1.3 Max. (0 to 40GHz) V.S.W.R. 1.4 Max. (40 GHz to 50GHz)	
	● H2.4-R-SR2-SA V.S.W.R. 1.5 Max. (0 to 50GHz)	
Mating Cycles	Contact resistance Center : 6m Ω Max. External : 4m Ω Max. No broken, cracked, or loose parts	500 cycles
Vibration Resistance	No electrical discontinuity greater than 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 greater than 1 μ s. No broken, cracked, or loose parts	Acceleration : 980m/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°C and the humidity ranging from 90 to 98%.
Temperature Cycle	No broken, cracked, or loose parts	5 cycles of the following test series condition : Temperature : -55°C $\rightarrow$ - $\rightarrow$ +105°C $\rightarrow$ - Time : 30 min. $\rightarrow$ 3 min. $\rightarrow$ 30 min. $\rightarrow$ 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	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.

Receptacle

H2.4 - LR - SR2 (##)

① ② ③ ④

① Series Name	H2.4	③ Board Mounting Method	PCB Screw Mounting
② Connector Type	LR : End Launch Receptacle R : Receptacle	④ Attached Screw	(00) : - (11) : 0-80UNF 1/4 inch (12) : 0-80UNF 3/16 inch (15) : 0-80UNF 1/4 + 3/16 inch

Cable Assembly

H2.4 - 2P - SF085MC1 - A - 6IN

① ② ③ ④

① Series Name	H2.4	③ Cable Type	0.085 inch, Flexible Cable
② Assembly Type	Double-ended Straight Plug Cable Assembly	④ Total Length (inch)	6, 12, 24, 36, 48, 60 inch

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

Functional Diagram

Plug Side

■ Straight Plug
H2.4-P-SF085



Receptacle Side

■ PCB Vertical Launch Receptacle
H2.4-R-SR2-SA



Non-Reflective Terminator

■ Plug
H2.4-TMP



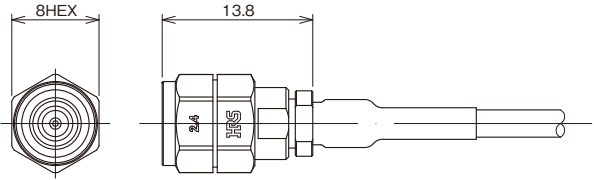
■ PCB End Launch Receptacle
H2.4-LR-SR2



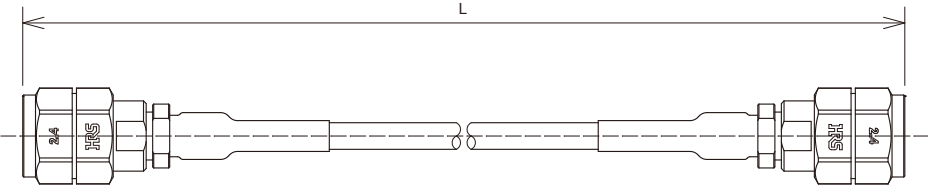
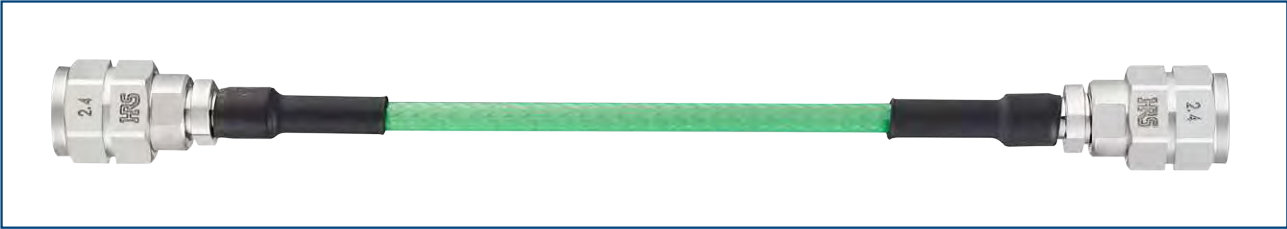
Plug

Plugs can be ordered only as terminated cable assemblies.

● H2.4-P-SF085



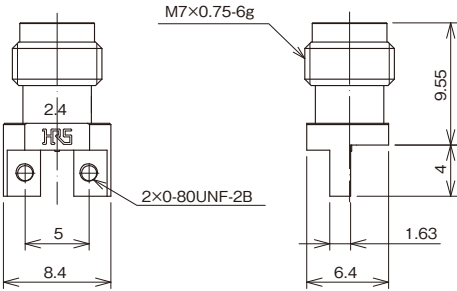
Cable Assembly (H2.4 Straight Plug - H2.4 Straight Plug)



Part No.	HRS No.	Cable Assembly Length L		Purchase Unit
		Unit : inch	Unit : mm	
H2.4-2P-SF085MC1-A-6IN	CL0321-5132-0-01	6 ± 0.16	152.4 ± 4	20pcs per bag
H2.4-2P-SF085MC1-A-12IN	CL0321-5132-0-02	12 ± 0.32	304.8 ± 8	
H2.4-2P-SF085MC1-A-24IN	CL0321-5132-0-03	24 ± 0.48	609.6 ± 12	
H2.4-2P-SF085MC1-A-36IN	CL0321-5132-0-04	36 ± 0.48	914.4 ± 12	
H2.4-2P-SF085MC1-A-48IN	CL0321-5132-0-05	48 ± 0.71	1219.2 ± 18	
H2.4-2P-SF085MC1-A-60IN	CL0321-5132-0-06	60 ± 0.87	1524.0 ± 22	

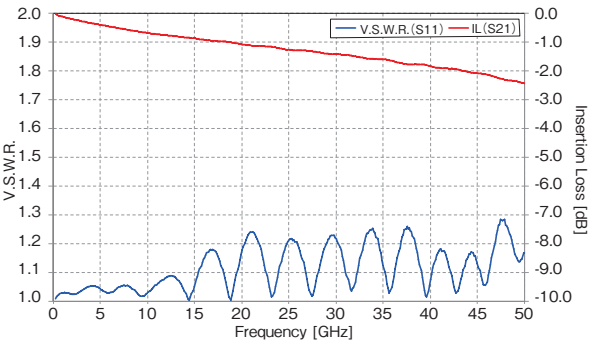
PCB End Launch Receptacle (For High Speed Transmission Evaluation Board)

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.



Part No.	HRS No.	Attached Screw	Purchase Unit
H2.4-LR-SR2	CL0338-0603-0-00	-	20pcs per bag
H2.4-LR-SR2(11)	CL0338-0603-0-11	0-80UNF 1/4 inch	
H2.4-LR-SR2(12)	CL0338-0603-0-12	0-80UNF 3/16 inch	

◆Frequency Characteristics (TYPICAL)

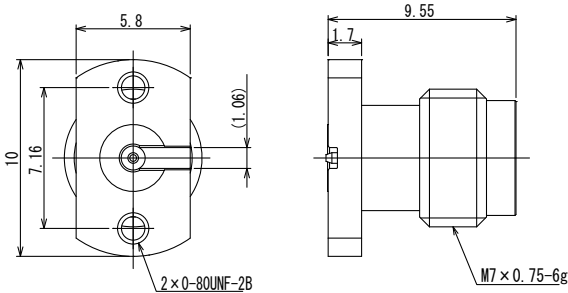


*Coplaner line length between both connector ends : 20mm

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

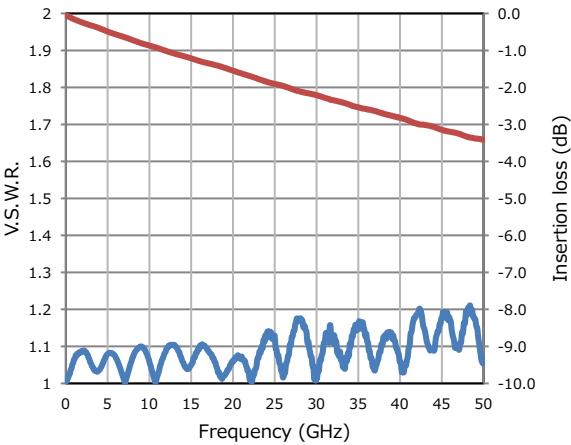
This product is a solderless mounted connector for prototype evaluation of high speed transmission boards. It is not recommended for use in actual commercial equipment.

●Inner Layer, Back Surface, Top Surface Trace Type



Part No.	HRS No.	Attached Screw	Purchase Unit
H2.4-R-SR2-SA	CL0338-0029-0-00	-	20pcs per bag
H2.4-R-SR2-SA(15)	CL0338-0029-0-15	0-80UNF 1/4 + 3/16 inch	

◆Frequency Characteristics (TYPICAL)



*Coplaner line length between both connector ends : 25mm

2.92mm Series

2.92mm Coaxial Connectors MIL Standard Compliant



Millimeter Wave



COAX 2.92mm



MIL Standard



Features

1. 2.92mm coaxial connector conforming to MIL-STD-348B Standard

2. Supports up to 40GHz frequency

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. Compatible with 0.085 inch flexible cable

5. Terminator is also available.

6. RoHS2 compliant

Applications

Data transmission measurement, radio communication equipment, measuring instruments, RF module, radio frequency power amplifier, high speed router, high speed switch, broadcasting equipment, etc.

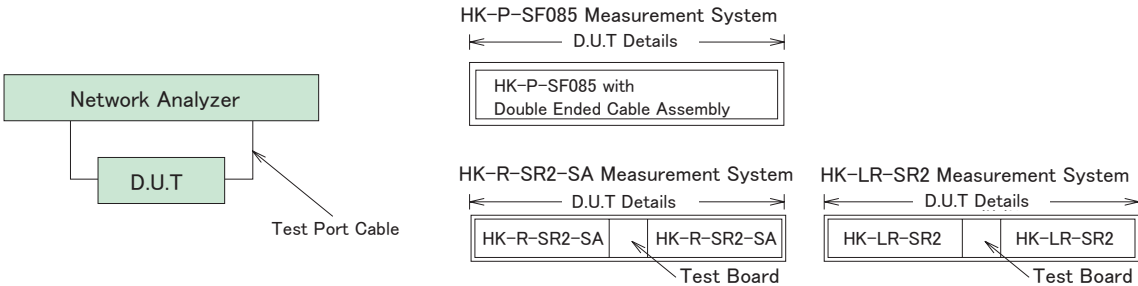
Product Specifications

Nominal Characteristic Impedance	50 Ω	Operating Temperature	-55 to +105°C (95% RH Max.)
Rated Frequency	0 to 40GHz	Storage Temperature Range	-55 to +50°C (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 V.S.W.R. : 1.30 Max. (0 to 40GHz)	
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 : 1,000M 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°C and the humidity ranging from 90 to 98%.
Temperature Cycle	No broken, cracked or loose parts	5 cycles of the following test series condition : Temperature : -55°C → - → +105°C → - 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 Plating / Gold Plating
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.

HK - 2P - MC1 - A - 6IN

① ② ③ ④

① Series Name	HK	③ Applicable Cable	SF085 : 0.085-inch, Flexible Cable MC1 : 0.085-inch, Flexible Cable
② Connector Type	P : Straight Plug 2P : Double-ended Straight Plug Cable Assembly	④ Length (inch)	6, 12, 24, 36, 48, 60 inch

■ Receptacle

HK - LR - SR2 (##)

① ② ③ ④

① Series Name	HK	③ Board Mounting Method	PCB Screw Mounting
② Connector Type	R : Vertical Mount Receptacle LR : End Launch Receptacle A : Adapter	④ Attached Screw	(00) : - (11) : 0-80UNF 1/4 inch (12) : 0-80UNF 3/16 inch (15) : 0-80UNF 1/4 + 3/16 inch

Functional Diagram

Plug Side

■ Straight Plug
HK-P-SF085



Receptacle Side

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



■ PCB End Launch Receptacle
HK-LR-SR2



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



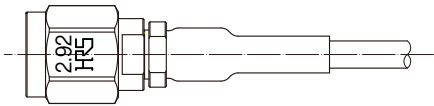
Terminator

■ Plug
HK-TMP



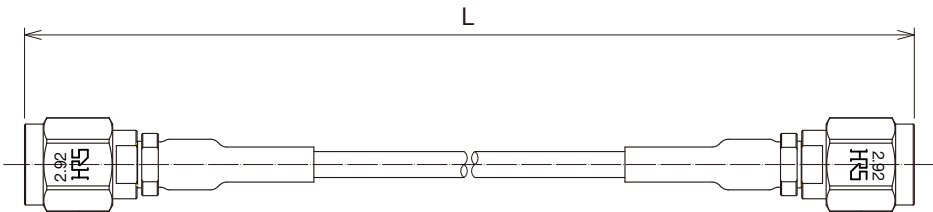
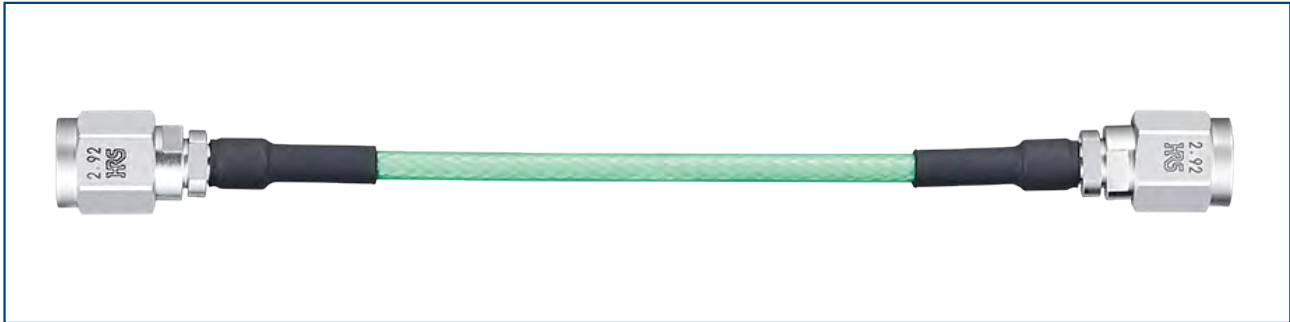
Plug

Please contact Hirose for assembly of cables.



Part No.	HRS No.	Purchase Unit
HK-P-SF085	CL0338-0081-0-00	20pcs per bag

Cable Assembly (HK Straight Plug - HK Straight Plug)

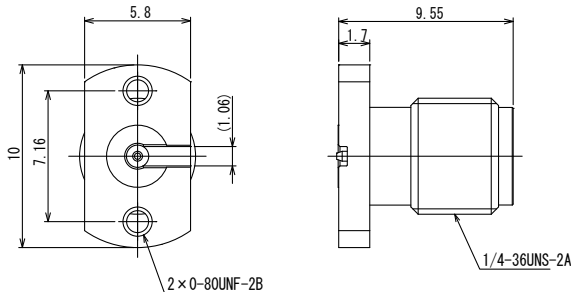


Part No.	HRS No.	Cable Assembly Length L Unit : inch	Cable Assembly Length L Unit : mm	Purchase Unit
HK-2P-MC1-A-6IN	CL0321-1934-0-05	6 ± 0.16	152.4 ± 4	20pcs per bag
HK-2P-MC1-A-12IN	CL0321-1934-0-10	12 ± 0.32	304.8 ± 8	
HK-2P-MC1-A-24IN	CL0321-1934-0-12	24 ± 0.48	609.6 ± 12	
HK-2P-MC1-A-36IN	CL0321-1934-0-13	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)

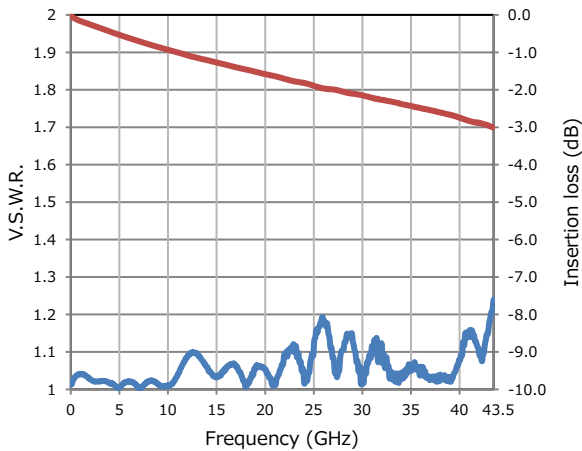
This product is a solderless mounted connector for prototype evaluation of high speed transmission boards.
It is not recommended for use in actual commercial equipment.

● 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	

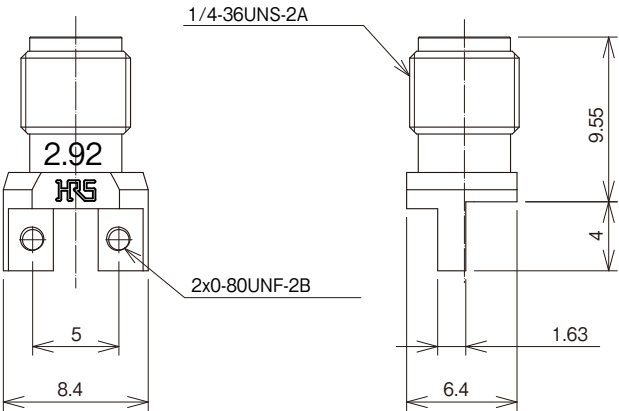
◆Frequency Characteristics (TYPICAL)



*Coplaner line length between both connector ends : 25mm

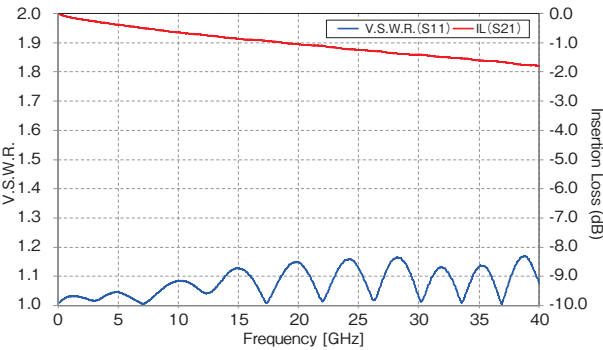
PCB End Launch Receptacle (For High Speed Transmission Evaluation Board)

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.



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	

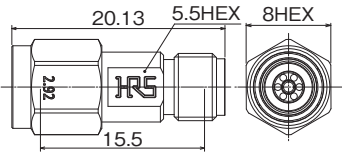
◆Frequency Characteristics (TYPICAL)



*Coplaner line length between both connector ends : 20mm

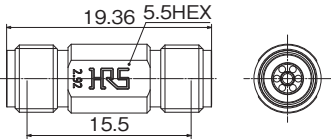
In-line Adapter

- Straight Adapter
Mated Portion: Plug – Jack



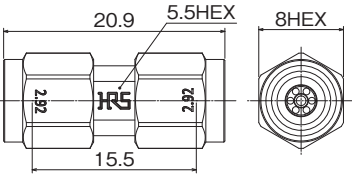
Part No.	HRS No.	Purchase Unit
HK-A-PJ	CL0338-0097-0-00	20pcs per bag

Mated Portion: Jack – Jack



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

Mated Portion: Plug – Plug



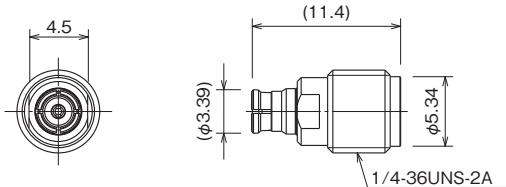
Part No.	HRS No.	Purchase Unit
HK-A-PP	CL0338-0099-0-00	20pcs per bag

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

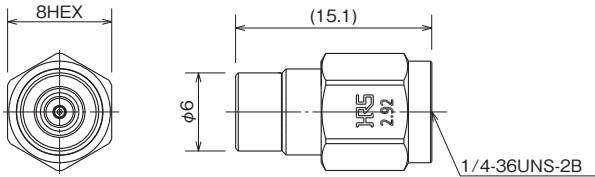
Conversion Adapter

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

2.92mm-TM Series

2.92mm Coaxial Connectors

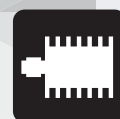
MIL Standard Compliant/Non-reflective Terminator



Millimeter Wave



COAX 2.92mm



Terminator



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°C
Rated Frequency	0 to 40GHz	Operating Relative Humidity	95% RH Max.
Power	0.5W CW (+75°C)		

Materials / Finish

Part	Materials	Finish
Shell	Stainless Steel	Passivate
Insulator	PTFE Resin	-
Male Contact	Brass	Gold Plated
Coupling	Stainless Steel	Passivate
Resistive Element	Metal Film	-

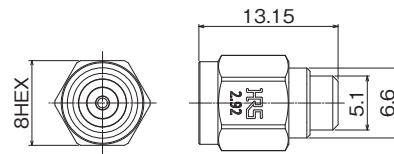
Product Number Structure

HK - TM P

① ② ③

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

Terminator

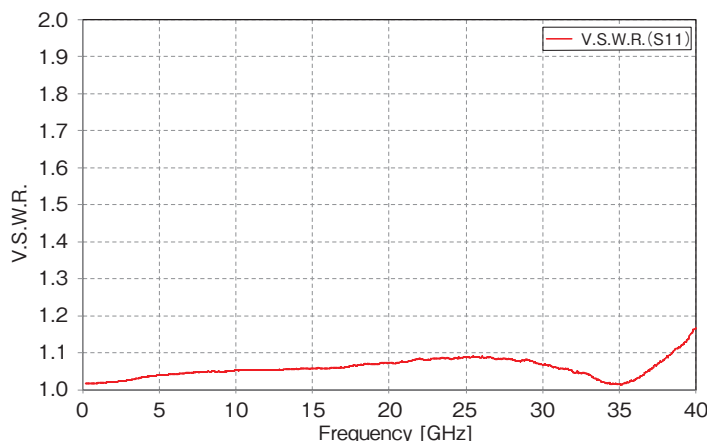


Part No.	HRS No.	Purchase Unit
HK-TMP	CL0353-0014-0-00	1pc per bag

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)



Алматы (7273)495-231
 Ангарск (3955)60-70-56
 Архангельск (8182)63-90-72
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Благовещенск (4162)22-76-07
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Владикавказ (8672)28-90-48
 Владимир (4922)49-43-18
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
 Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Коломна (4966)23-41-49
 Кострома (4942)77-07-48
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курск (4712)77-13-04
 Курган (3522)50-90-47
 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
 Москва (495)268-04-70
 Мурманск (8152)59-64-93
 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Ноябрьск (3496)41-32-12
 Новосибирск (383)227-86-73
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16
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