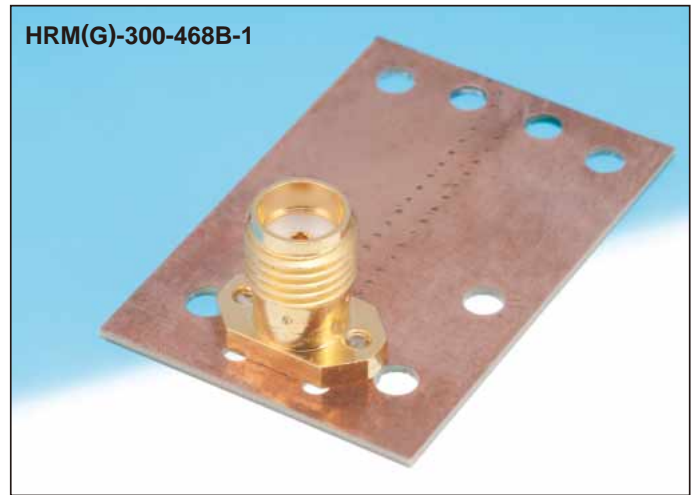
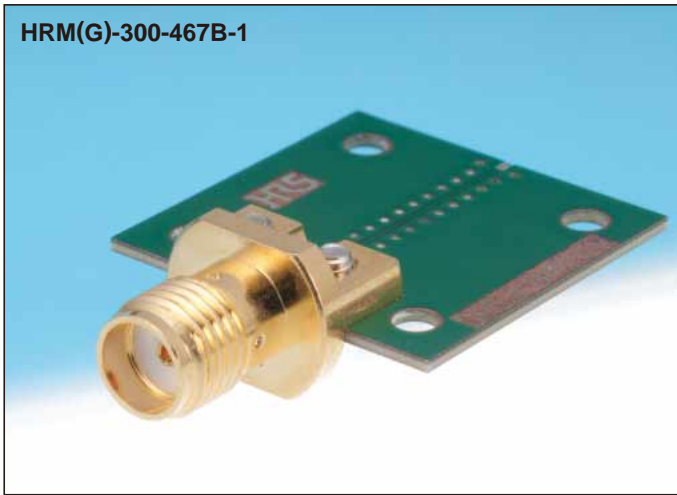


NEW

SMA Connector for High-Speed Transmission Characteristics Measurement

HRM(G) Series

Compatible with 28 GHz



■ Features

1. Two mounting methods

This connector is capable of being mounted to the PCB edge or vertically.

2. Capable of handling frequencies up to 28 GHz

3. Easy mounting

Easily mounts with the use of just one fastening screw.

4. Mounts to PCBs of various thicknesses

This series can be mounted to various PCB thicknesses of 0.7 mm or more all while utilizing just one mounting screw.

5. RoHS compliant

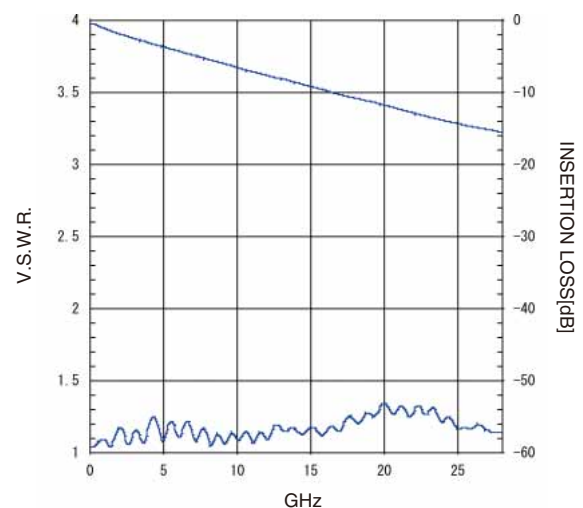
Environmentally friendly, produced without RoHS restricted substances.

■ Application

Measuring devices, transmission characteristics measurement, radio communication equipment, high-frequency modules, radio power amplifier, high-speed routers, high-speed switches, broadcasting equipment, other equipment compatible with high frequency, etc.

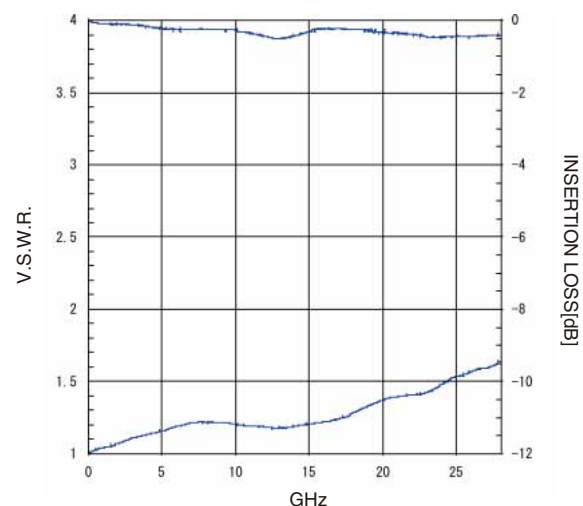
● High-Frequency Characteristics (Typical Value)

◆ HRM(G)-300-467B-1 High Frequency Characteristics



*The line length of the measuring PCB is 73 mm.

◆ HRM(G)-300-478B-1 High Frequency Characteristics



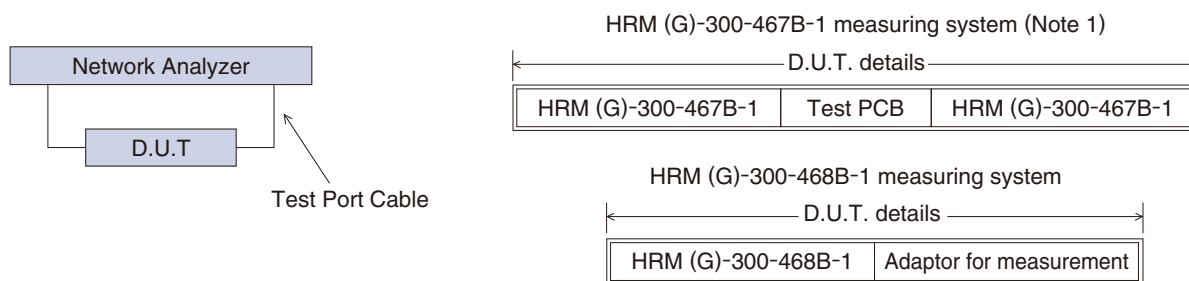
Product specification

Rating	Nominal Characteristic Impedance	50 Ω	Operating Temperature Range -55°C to 85°C (≤ 95% RH)	
	Rated Frequency	DC - 28GHz	Storage Temperature Range -55°C to 85°C (≤ 95% RH)	

Item	Specification	Condition		
1.Contact resistance	Center: 4 mΩ or less Exterior: 4 mΩ or less	Measured at 100 mA or less		
2. Insulation resistance	5000 mΩ or more	Measured at 500V		
3.Withstanding voltage	No flashover or breakdown	AC 1000V for one minute		
4.Voltage standing wave ratio (*)	Product Name	DC - 20GHz	20GHz - 28GHz	
	HRM (G)-300-467B-1	1.4 or less	1.7 or less	
	Product Name	DC - 18GHz	18GHz - 20GHz	20GHz - 28GHz
	HRM (G)-300-468B-1	1.4 or less	1.5 or less	1.7 or less
5.Repeat performance	Contact resistance Center: 6 mΩ or less Exterior: 6mΩ or less No breakage, cracking, or loosening to parts	Insertion/extraction 500 times		
6.Vibration resistance	No electric outage of 1 μ or greater No breakage, cracking, or loosening to parts	10 cycles in each of three directions at frequency 10 to 2,000 Hz, half amplitude 0.75 mm, acceleration of 196 m/s ²		
7.Shock resistance	No electric outage of 1 μ or greater No breakage, cracking, or loosening to parts	Frequency 1960 m/s ² , duration 6 ms, sine half-wave, 3 cycles in each of the 3 axis		
8.Humidity resistance to temperature/humidity cycle	Contact Resistance: 100 mΩ or more (when highly humid) Insulation Resistance: 5000 mΩ or more (when dry) No breakage, cracking, or loosening to parts	10 cycles (240 hours) at temperature +25 to 65°C and humidity 90% to 96%		
9.Temperature cycle	No breakage, cracking, or loosening to parts	Temperature: -55°C → - → +85°C → -°C Time: 5 cycles of the following. 30 min. → 3 min. → 30 min. → 3 min.		
10.Salt water spray	No marked corrosion	Continuous spraying of 5% salt water for 48 hours		

* Measurement system of voltage standing wave ratio (V.S.W.R.)

The specification values of the above V.S.W.R. are the measurement values of the following diagram.



(Note 1) Measured with HRM (G)-300-467B-1 mounted on a 50Ω glass epoxy PCB

Material

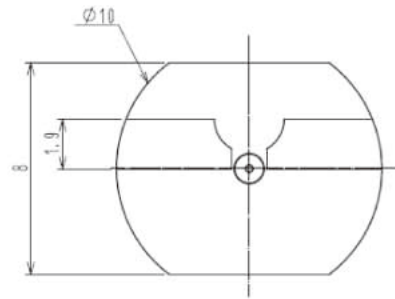
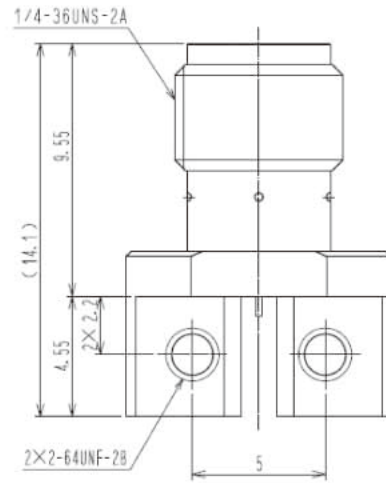
HRM (G)-300-467B-1, HRM (G)-300-468B-1

Part	Material	Finish
R shell	Copper	Gold plating
Insulator	PTFE resin	—
Female contact	Beryllium copper	Gold plating

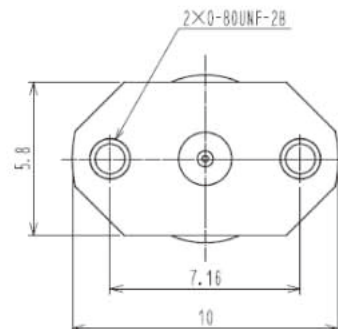
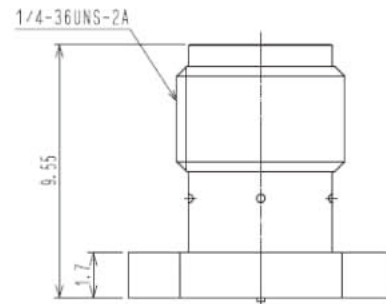
■ Receptacle



Part Number	HRS No.	RoHS
HRM (G)-300-467B-1	CL323-0937-0	YES



Part Number	HRS No.	RoHS
HRM (G)-300-468B-1	CL323-0924-8	YES



USA:

HIROSE ELECTRIC (U.S.A.), INC. Headquarters
 2688 Westhills Court, Simi Valley, CA 93065-6235
 Phone : +1-805-522-7958
 Fax : +1-805-522-3217
<http://www.hiroseusa.com>

USA:

HIROSE ELECTRIC (U.S.A.), INC. San Jose Office
 20400 Stevens Creek Blvd., Ste 250, Cupertino, CA 95014
 Phone : +1-408-253-9640
 Fax : +1-408-253-9641
<http://www.hiroseusa.com>

USA:

HIROSE ELECTRIC (U.S.A.), INC. Detroit Office (Automotive)
 37677 Professional Center Drive, Suite #100C Livonia, MI 48154
 Phone : +1-734-542-9963
 Fax : +1-734-542-9964
<http://www.hiroseusa.com>

THE NETHERLANDS:

HIROSE ELECTRIC EUROPE B.V.
 Hogehillweg #8 1101 CC Amsterdam Z-0
 Phone : +31-20-6557460
 Fax : +31-20-6557469
<http://www.hiroseeurope.com>

GERMANY:

HIROSE ELECTRIC EUROPE B.V. GERMAN BRANCH
 Herzog-Carl-Strasse 4 D-73760 Ostfildern (Scharnhauser Park)
 Phone : +49-711-4560-02-1
 Fax : +49-711-4560-02-299
<http://www.hirose.de>

UNITED KINGDOM:

HIROSE ELECTRIC EUROPE B.V. UK BRANCH
 First Floor, St Andrews House, Caldecotte Lake Business Park, Milton Keynes MK7 8LE
 Phone : +44-1908-369060
 Fax : +44-1908-369078
<http://www.hirose.co.uk>

CHINA:

HIROSE ELECTRIC (SHANGHAI) CO., LTD.
 1601, Henderson Metropolitan, NO.300, East Nanjing Road, Huangpu District, Shanghai, China 200001
 Phone : +86-21-6391-3355
 Fax : +86-21-6391-3335
<http://www.hirose-china.com.cn>

CHINA:

HIROSE ELECTRIC (SHANGHAI) CO., LTD. BEIJING BRANCH
 A1001, Ocean International Center, Building 56# East 4th Ring Middle Road, Chao Yang District, Beijing, 100025
 Phone : +86-10-5165-9332
 Fax : +86-10-5908-1381
<http://www.hirose-china.com.cn>

CHINA:

HIROSE ELECTRIC TECHNOLOGIES (SHENZHEN) CO., LTD.
 Room 09-13, 19/F, Office Tower Shun Hing Square, Di Wang Commercial Centre 5002, ShenNanDong Road, ShenZhen City, Guangdong Province, 518008
 Phone : +86-755-8207-0851
 Fax : +86-755-8207-0873
<http://www.hirose-china.com.cn>

HONG KONG:

HIROSE ELECTRIC HONGKONG TRADING CO., LTD.
 Room 1001, West Wing, Tsim Sha Tsui Centre, 66 Mody Road, Tsim Sha Tsui East, Kowloon, Hong Kong
 Phone : +852-2803-5338
 Fax : +852-2591-6560
<http://www.hirose-hongkong.com.hk>

TAIWAN:

HIROSE ELECTRIC TAIWAN CO., LTD.
 103 8F, No.87, Zhengzhou Rd., Taipei
 Phone : +886-2-2555-7377
 Fax : +886-2-2555-7350
<http://www.hirose-taiwan.com.tw>

KOREA:

HIROSE KOREA CO., LTD.
 1261-10, Jeoungwhang-Dong, Shihung-City, Kyunggi-Do 429-450
 Phone : +82-31-496-7000, 7124
 Fax : +82-31-496-7100
<http://www.hirose.co.kr>

SINGAPORE:

HIROSE ELECTRIC SINGAPORE PTE. LTD.
 10 Anson Road #26-16 International Plaza 079903
 Phone : +65-6324-6113
 Fax : +65-6324-6123
<http://www.hirose-singapore.com.sg>

INDIA:

HIROSE ELECTRIC SINGAPORE PTE. LTD. BANGALORE LIAISON OFFICE
 Unit No.03, Ground Floor, Explorer Building International Tech Park Whitefield Road, Bangalore 560066 Karnataka, India
 Phone : +65-6324-6113
 Fax : +65-6324-6123
<http://www.hirose-singapore.com.sg>



HIROSE ELECTRIC CO.,LTD.

6-3, Nakagawa Chuoh-2-Chome, Tsuzuki-Ku, Yokohama-Shi 224-8540, JAPAN
 TEL: +81-45-620-3526 Fax: +81-45-591-3726
<http://www.hirose.com>
<http://www.hirose-connectors.com>