The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.

All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative. 连接器网一一汇勤电子旗下网站,一站解决电气信号连接问题 http://www.Ljqw.top/ TEL:400-022-7728

Interface RF Connector with Switch, built-in interlock, DC to 3GHz

MS-151NB Series



Features

1. Confirmation of complete connection

Built-in interlock feature confirms fully mated condition

with a "click" sensation.

2. Non-directional connection

The connector can be mated in any position on a 360° axis and can rotate within the same when in use, allowing routing of the connected cable in any direction.

3. High durability

Guaranteed 5000 insertion/removal cycles.

4. Space-saving

The external dimensions of the board-mounted receptacle (5.0 mm high, 6.5 mm wide, 7.0 mm deep) makes it ideal for use in small devices.

5. Board placement with automatic equipment Packaged on tape-and-reel. Also available with a vacuum pick-up cap over each switch.

6. RoHS compliant All components and materials comply with the

All components and materials comply with the requirements of the EU Directive 2002/95/EC.

Applications

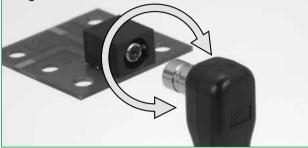
GPS terminals, wireless LAN modules, notebook computers, PDA, and other high frequency equipment. (Page 7 lists applications and antenna circuit

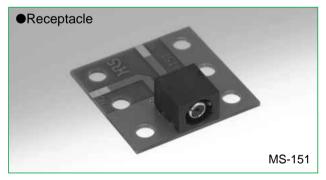
switching examples.)

Overview

Designed for end user applications requiring redirection of transmission from internal built-in antenna to the external antenna. Small size, lightweight and high reliability makes it ideal for use in 2.4 GHz band wireless LAN applications.

Plug can be rotated after full insertion.







The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-Rolling websigned is not interventioned for the most current and accurate design information. 连接器网一二上卸电子旗下网站,一站解决电气信号连接问题, http://www.bjgw.top/ TEL:400-022-7728

Product Specifications

Frequency range	DC to 3GHz			
Operating temperature range	-40°C to +85℃			
Power rating		4W		
		N.C N.O		
	DC to 1 GHz	1.2	max.	
V.S.W.R.	1 GHz to 2 GHz	1.4	max.	
	2 GHz to 3 GHz	1.7	max.	
	DC to 1 GHz	0.2dB max.	0.3dB max.	
Insertion loss	1 GHz to 2 GHz	0.4dB max.	0.5dB max.	
	2 GHz to 3 GHz	0.6dB max.	1.0dB max.	
	DC to 1 GHz		20dB min.	
Isolation loss	1 GHz to 2 GHz		18dB min.	
	2 GHz to 3 GHz		12dB min.	

Item	Specification	Conditions
1. Contact resistance	50 m ohms max.	100 mA
2. Insulation resistance	1000 M ohms min.	100 V DC
3. Withstanding voltage	No flashover or insulation breakdown	100 V AC / 1 minute
4. Vibration	No electrical discontinuity of 10 μ s or more	Frequency: 10 to 500 Hz, single amplitude of 0.75 mm, acceleration of 98 m/s2 for 2 hours in each of the 3 directions
5. Shock	No electrical discontinuity of 10 μ s of more	Acceleration of 490 m/s ² , 11 ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis
6. Temperature cycle	Contact resistance: 100 m ohms max.	Temperature: -55° C → $+15^{\circ}$ C to $+35^{\circ}$ C → $+85^{\circ}$ C → $+15^{\circ}$ C to $+35^{\circ}$ C Time: 30 → 5 max. → 30 → 5 max.(Minutes) 100 cycles
7. Humidity (Steady state)	Insulation resistance: 10 M ohms min.	96 hours at temperature of 40°C and humidity of 90%
8. Salt spray	Contact resistance: 100 m ohms max. No corrosions	5% salt water solution, 48 hours (at 35°C)
9. Insertion/Withdrawal forces	Insertion force: 1~10N Withdrawal force: 3~15N	With corresponding connector
10. Durability (insertion/ withdrawal)	Contact resistance: 100 m ohms max.	5000 cycles

Materials

Receptacle MS-151

Part	Material	Finish
Insulator	Polyamide (UL94V0)	
Lock mating section	Stainless steel	Nickel plating (Termination area: tin-lead plated)
Outer conductor shell	Phosphor bronze	Nickel plating (Termination area: tin-lead plated)
Contact A	Phosphor bronze	Gold plating
Contact C	Beryllium copper	Gold plating

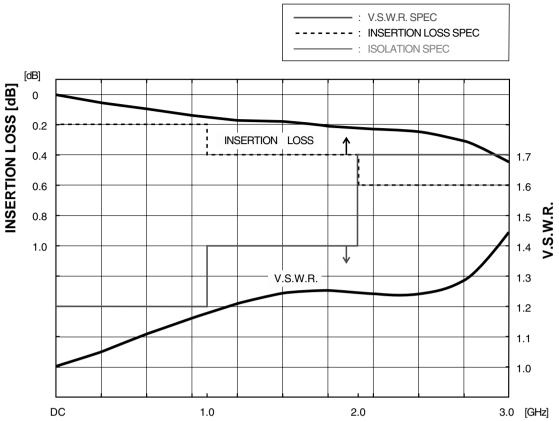
Plug MS-151-C(LP)

Part	Material	Finish
Cover A	PC	
Cover B	PC	
Ring	Stainless steel	Nickel plating
Outer conductor shell	Phosphor bronze	Nickel plating
Inner contact	Phosphor bronze	Gold plating
Insulator	Polyamide (UL 94-HB)	
Ferrule	Stainless steel	
Crimp metal fitting	Brass	Nickel plating
Bushing	Polyester	

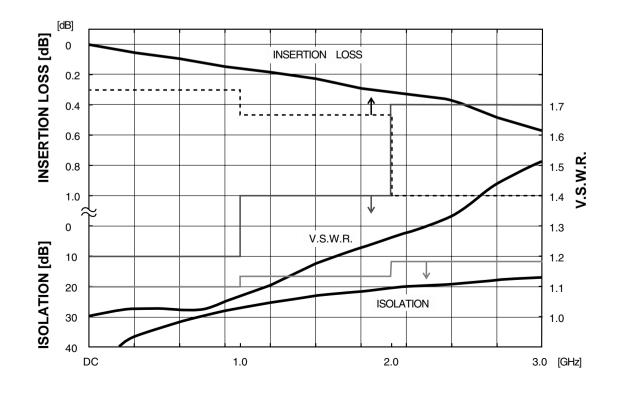
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the server the times where the server being server the server being server the server being server the server being serv

Typical data

•NORMALLY CLOSED(N.O) \sim (Not mated with the plug)

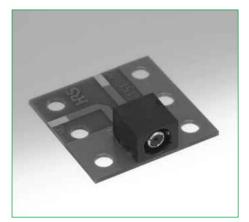


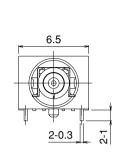
$\Theta OPEN(N.O) \sim$ (Mated with the plug)

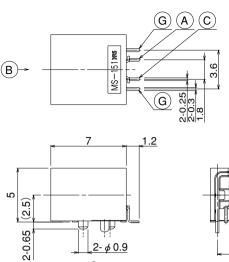




Receptacle

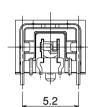






2- ø 0.9

2 -0.8



Part Number	HRS No.	Packaging	RoHS
MS-151NB	358-0215-9	1,000 pieces per reel	YES
MS-151NB(01)	358-0215-9-01	100 pieces	TES

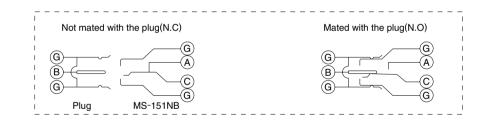
2.5

0.5

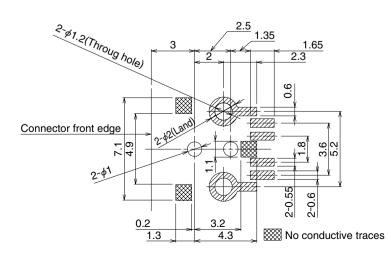
3-0.5

З

♦ Circuit diagram



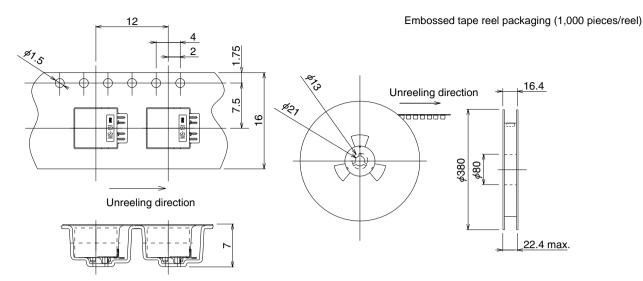
PCB mounting pattern



The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.

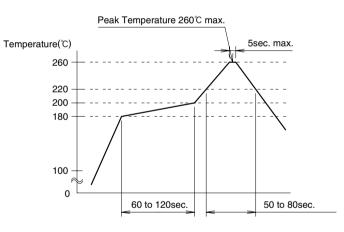
All non-RoHS products have been discontinued, or will be discontinued soon. Please check tings of the service website 股路 contribution with services products have been discontinued, or will be discontinued soon. Please check tings of the discontinued website 股路 contribution with services products have been discontinued and will be discontinued soon. Please check tings of the discontinued website 股路 contribution website Resonance website Resonance will be discontinued by the discontinued soon. Please check tings of the discontinued and the discontinued soon. Please check tings of the discontinued and the discontinued soon. Please check tings of the discontinued and the disc

Packaging Specifications



Recommended Temperature Profile





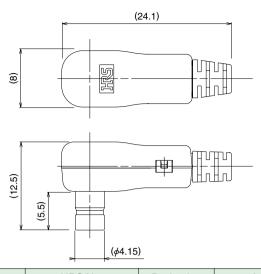
Maximum temperature	: 260°C
Peak temperature	: 240℃ to 255℃
Peak temperature duration	: 5 sec. Max.
200°C min.	: 50 to 80 sec.
150℃ to 160℃	: 60 to 120sec.



The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-Rolling of the most current and accurate design information. 连接器网一一上如电子旗下网站,一站解决电气信号连接问题,http://www.bjgw.top/ TEL: 400-022-7728

■Plug





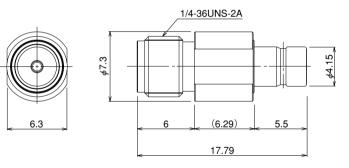
Part Number	HRS No.	Packaging	Applicable cable	RoHS
MS-151-C(LP)	358-0160-9	1	1.5DS-QEHV(TA)	YES

Termination fixture: MS-151/CF-MD, MS-151/SO-MD, MS-151/BE-MP and MS-151/CK-MP Please contact your Hirose Electric representative for information.

SMA Conversion adaptors

●For Receptacle: MS-151





Part Number	HRS No.	Packaging	RoHS
MS151P-HRMJ	355-0089-7	1	YES

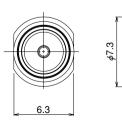
•For Plug: MS-151-C(LP)

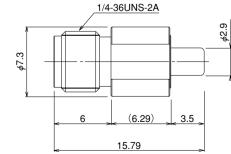
HRS

130



·汇勤电子旗下网站,一站解决电气信号连接问题





Part Number	HRS No.	Packaging	RoHS
MS151J-HRMJ	355-0088-4	1	YES