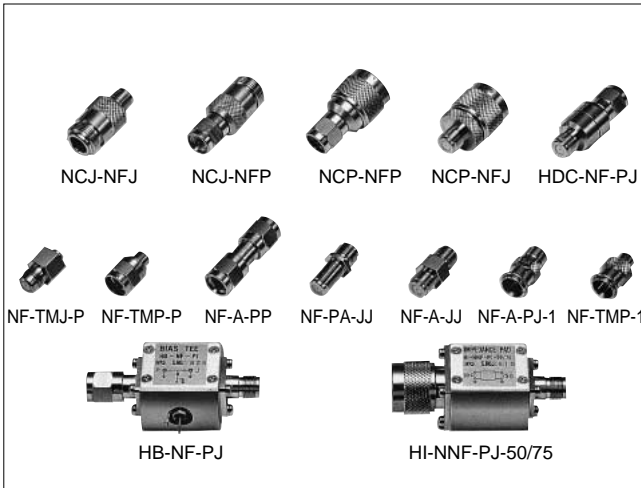


# C15 Type Accessories

## NF Series



C15 type accessories (with an impedance Z of 75Ω) are high performance accessories for the satellite broadcast receivers and measuring instruments developed to respond to the new media wave.

### ■ Features

#### 1. High Degree of Matching

The non-reflective terminators exhibit a high degree of matching of V.S.W.R. 1.12 or less for all products.

#### 2. Easy Connection and Disconnection

The push-on plug type of connector, which ensures easy connection and disconnection, is available for the F type of non-reflective termination and in-line adapter.

### ■ Product Specifications

Ratings	Frequency range (Note)	DC to 2.0 GHz
	Characteristic impedance	75 ohms
	Maximum Input Power (Non-reflective termination)	0.25W
	Operating temperature range	-10°C to +65°C
	Operating relative humidity	95% Max.

Note: The frequency range will depend on the model.

Item	Standard	Conditions
1. Insulation resistance	500 M ohms min.	500 V DC
2. Contact resistance	5 mV max.	1 A DC

### ■ Materials

Part	Material	Finish	Remarks
Body	Brass	Nickel plating	-----
Male center contact	Brass	Gold plating	-----
Female center contact	Beryllium copper	Gold plating	-----
Insulator	PTFE	-----	Incombustible material

### ■ Ordering Information

#### ● Terminations

**NF - TMP - P**  
 ① ② ③ ④

① Series Name: NF
② TM: Non-reflective termination
③ Coupling Portion P: Plug J: Jack
④ P: Precision 1- : Suffix

#### ● In-line Adapters

**NF - A - PJ - 1**  
 ① ② ③ ④

① Series Name: NF
② A: In-line adapter PA: Panel adapter
③ Coupling Portion PP: Plug - Plug JJ: Jack - Jack PJ: Plug - Jack
④ Suffix

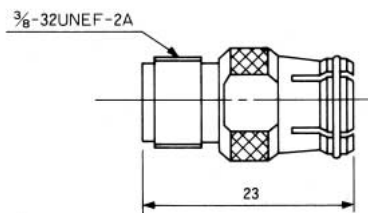
#### ● Conversion Adapter

**NCJ - NFP**  
 ① ②

① Connector Form (1) NCP: NC type plug NCJ: NC type jack
② Connector Form (2) NFP: C15 type plug NFJ: C15 type jack

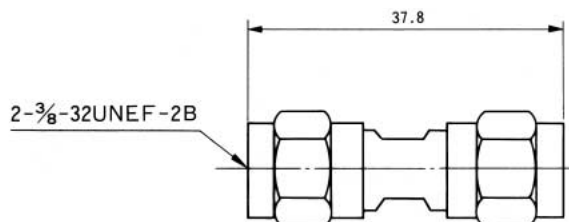
## ■ In-line Adapters

### ● Jack - Push-on Plug



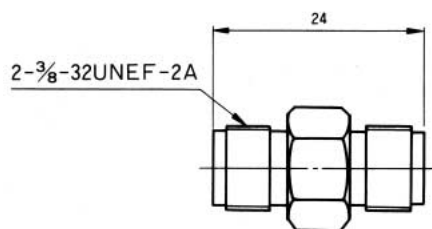
Part Number	Frequency Range	V.S.W.R.	Weight
NF-A-PJ-1	DC~1.5GHz 1.5~2.0GHz	1.06 1.12	10g

### ● Plug - Plug



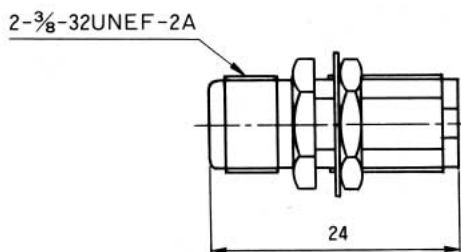
Part Number	Frequency Range	V.S.W.R.	Weight
NF-A-PP	DC~1.5GHz 1.5~2.0GHz	1.06 1.12	25g

### ● Jack - Jack



Part Number	Frequency Range	V.S.W.R.	Weight
NF-A-JJ	DC~1.5GHz 1.5~2.0GHz	1.032 1.06	12g

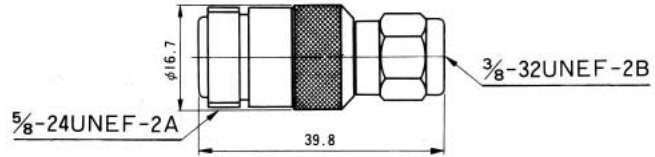
### ● Jack - Jack (Panel mounting type)



Part Number	Frequency Range	V.S.W.R.	Weight
NF-PA-JJ	DC~1.5GHz	1.10	12g

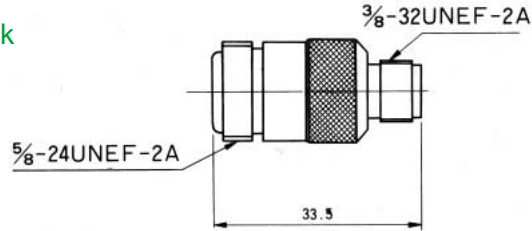
## NF-N Conversion Adapter

### Coupling Portion: NF side plug - NC side jack



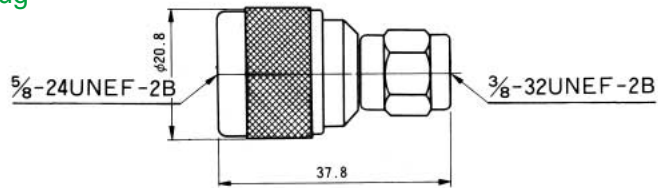
Part Number	Frequency Range	V.S.W.R.	Weight
NCJ-NFP	DC~1.5GHz 1.5~2.0GHz	1.032 1.06	40g

### Coupling Portion: NF side jack - NC side jack



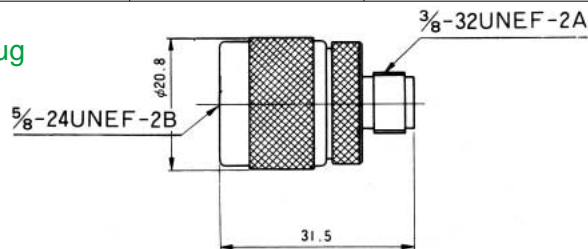
Part Number	Frequency Range	V.S.W.R.	Weight
NCJ-NFJ	DC~1.5GHz 1.5~2.0GHz	1.06 1.12	32g

### Coupling Portion: NF side plug - NC side plug



Part Number	Frequency Range	V.S.W.R.	Weight
NCP-NFP	DC~1.5GHz 1.5~2.0GHz	1.06 1.12	32g

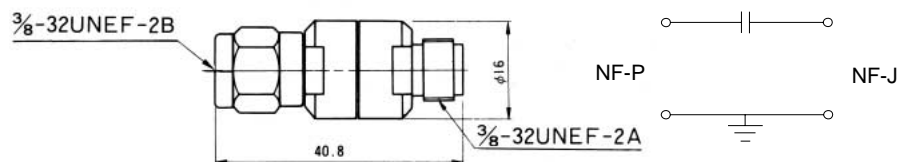
### Coupling Portion: NF side jack - NC side plug



Part Number	Frequency Range	V.S.W.R.	Weight
NCP-NFJ	DC~1.5GHz 1.5~2.0GHz	1.06 1.12	38g

## DC Block

### Coupling Portion: NF plug - jack

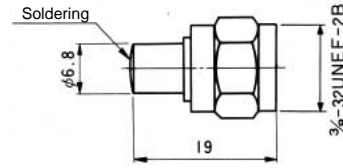


Part Number	Frequency Range	V.S.W.R.	Insertion Loss	Weight
HDC-NF-PJ	10~1500MHz	1.20	0.4 dB or less	35g

### Circuit Structure Diagram

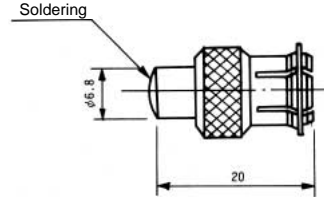
## ■ Non-reflective Terminations

### ● Plug Type



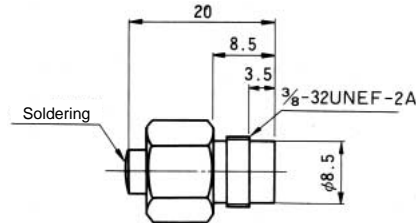
Part Number	Frequency Range	V.S.W.R.	Power	Weight
NF-TMP-P	DC~1.5GHz 1.5~2.0GHz	1.032 1.06	25mW	11g

### ● Push-on Plug Type



Part Number	Frequency Range	V.S.W.R.	Power	Weight
NF-TMP-1	DC~1.5GHz 1.5~2.0GHz	1.06 1.12	25mW	10g

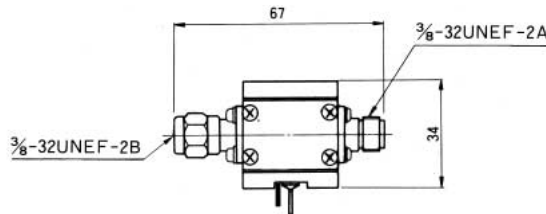
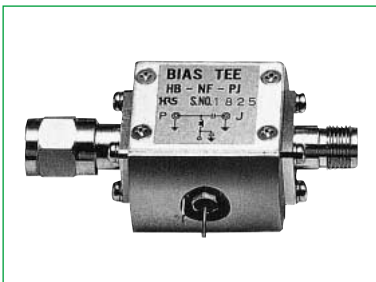
### ● Jack Type



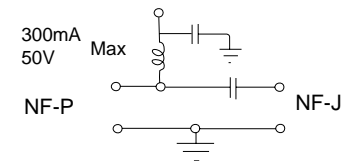
Part Number	Frequency Range	V.S.W.R.	Power	Weight
NF-TMJ-P	DC~1.5GHz 1.5~2.0GHz	1.032 1.06	25mW	13g

## ■ Bias Tee

### ● Coupling Portion: Plug - Jack



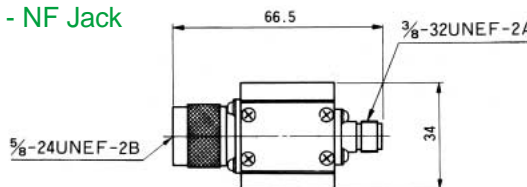
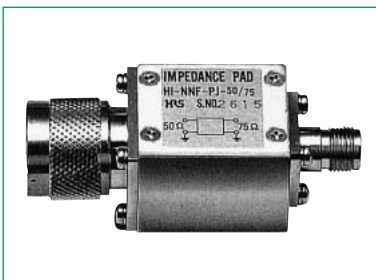
### ■ Circuit Diagram



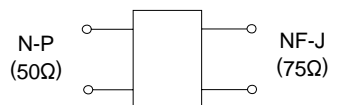
Part Number	Frequency Range	V.S.W.R.	Insertion Loss	Power	Weight
HB-NF-PJ	0.9~1.5GHz 1.0~1.35GHz	1.20 1.10	0.4 dB or less	1W	81g

## ■ Impedance Pad ( $\lambda/4$ Conversion)

### ● Coupling Portion: 50ΩN Type Plug - NF Jack



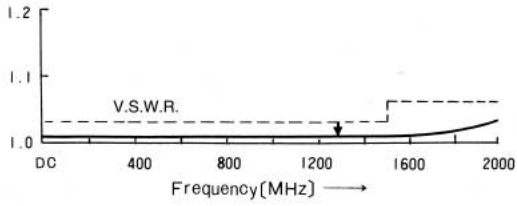
### ■ Circuit Diagram



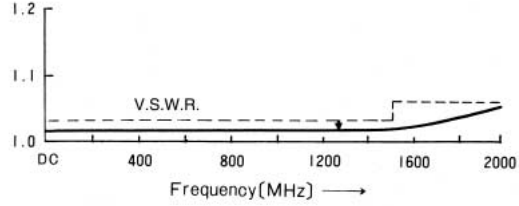
Part Number	Frequency Range	V.S.W.R.	Insertion Loss	Power	Weight
HI-NNF-PJ-50/75	0.9~1.5GHz 1.0~1.35GHz	1.25 1.20	0.4 dB or less	1W	108g

## Typical Data

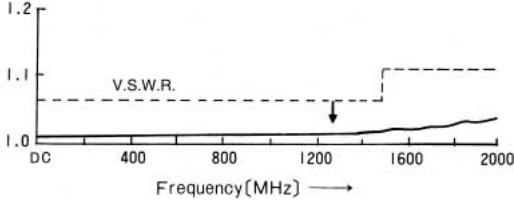
**NF-TMP-P (Note 1)**



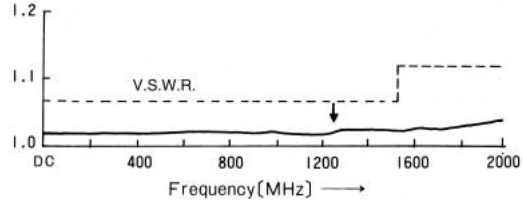
**NF-TMJ-P (Note 2)**



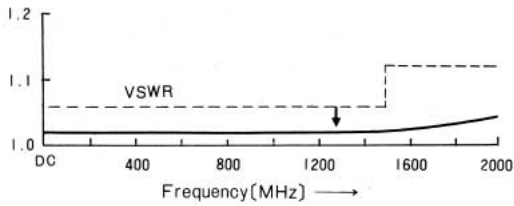
**NF-TMP-1**



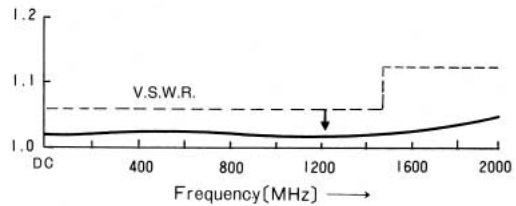
**NF-A-PJ-1**



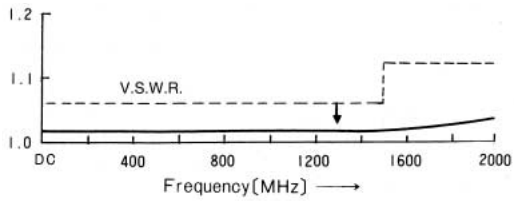
**NCJ-NFJ**



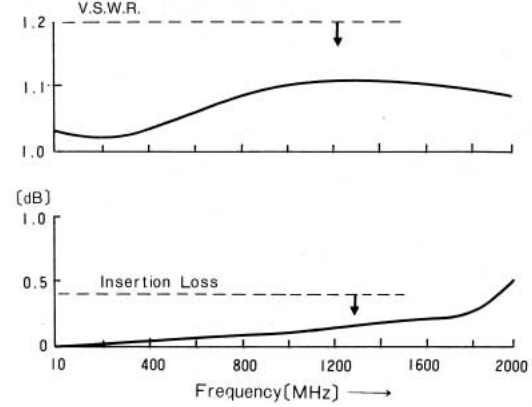
**NCP-NFP**



**NCP-NFJ**

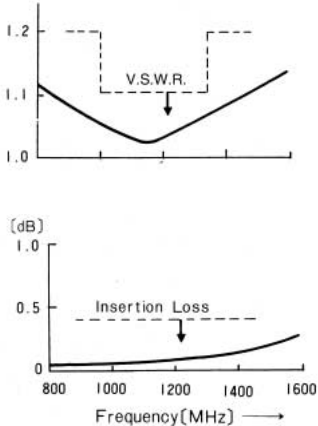


**HDC-NF-PJ**



NOTE 1: Measure with NCJ-NFP, and NF-A-JJ included in NF-TMP-P.  
 NOTE 2: Measure with NCJ-NFP included in NF-TMJ-P.

**HB-NF-PJ**



**HI-NNF-PJ-50/75**

