

DC BLOCK

THDC Series



■ Features

1. DC Cut

These connectors have a chip capacitor placed in the center conductor which allows them to cut the DC in a stable manner and not affect the high frequency characteristics.

2. Full Variety of Connector Forms

A full variety of connector forms are available with contact portions of the following types: BNC type (75Ω impedance Z), SMA type (Hirose Electric HRM Series, impedance Z 50Ω), and N type (50Ω impedance Z).

■ Applications

Ideal for use with measuring instruments and other circuits where a cut of the DC component is desired.

■ Product Specifications

Rating	Frequency range (NOTE)	10 to 18,500 MHz	Operating temperature range	-10°C to +65°C
	Characteristic impedance (NOTE)	50Ω and 75Ω	Operating relative humidity	95% or less
	Maximum usable power	2.5 W		
	Maximum usable voltage	50 V		

NOTE: The frequency range and characteristic impedance will depend on the model.

Item	Standard	Conditions
1. Vibration resistance	No damage, cracks, or parts looseness	Frequency of 10 to 2000 Hz, overall amplitude of 1.5 mm, 98 m/s ² acceleration, in 3 axial directions, 4 hours each
2. Shock resistance	No damage, cracks, or parts looseness	98 m/s ² acceleration, half sine wave, in 3 axial directions, 3 times each
3. Temperature cycle	No damage, cracks, or parts looseness	(-30°C: 30 min. → 5 to 35°C: Within 15 min. → 70°C: 30 min. → 5 to 35°C: Within 15 min.) for 5 cycles

●The test method conforms to MIL-STD-202.

■ Materials

THDC-HRM · J-N · J(47) and HDC-BNC-P · J(75)

Part	Material	Processing
External cladding	Brass	Nickel plating
Insulation	Teflon	—
Female contact	Beryllium copper	Gold plating
Male contact	Brass	Gold plating

THDC-HRM-P · J

Part	Material	Processing
External cladding	(HRM-P) Stainless	Passivated
	(HRM-P) Brass	Gold plating
Insulation	Teflon	—
Female contact	Beryllium copper	Gold plating
Male contact	Brass	Gold plating

THDC-100-1

Part	Material	Processing
External cladding	(HRM-P) Stainless	Passivated
Insulation	Teflon	—
Female contact	Beryllium copper	Gold plating

■ Product Number Breakdown

THDC - HRM - P · J

① ②

① Series Name: THDC and HDC
(Indicates DC cut)

② Connector Coupling Portion

HRM-P · J : HRM Series (SMA) plug/jack

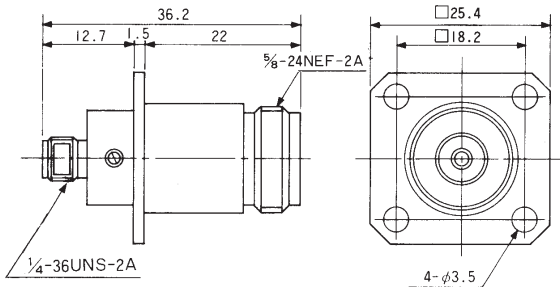
BNC-P · J : BNC Series plug/jack

HRM · J-N · J: HRM Series plug/N Series jack

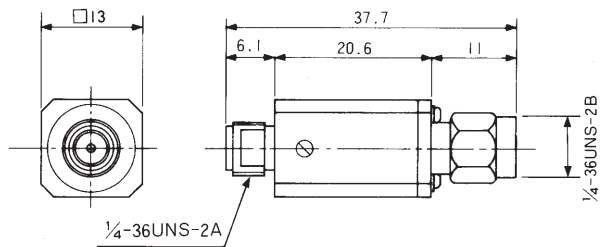
Specifications

Model No.	(MHz) Frequency Range	(Max) V.S.W.R.	(dB Max) Insertion Loss	(V Max) Voltage Rating	(Ω) Impedance	Connectors	(g) Weight
THDC-HRM·J-N·J(47)-B	10~1000 1000~2000	1.2	0.2 0.4	50	50	HRM(SMA) J-N·J	45
THDC-HRM-P·J	10~1000 1000~2000	1.25 1.3	0.3	50	50	HRM(SMA) P·J	30
THDC-100-1	500~18500	1.8	1.5	50	50	HRM(SMA) J·J	22
HDC-BNC-P·J(75)	400~1750	1.5	0.5	50	75	BNC(75Ω) P·J	23

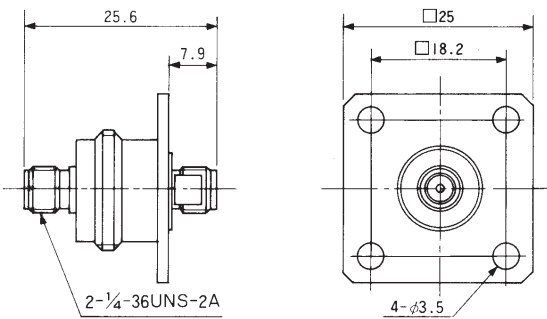
External Dimensions



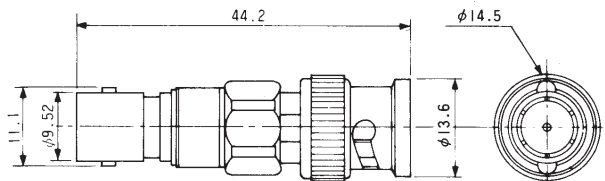
THDC-HRM·J-N·J(47)-B



THDC-HRM-P·J



THDC-100-1



HDC-BNC-P·J(75)