

Non-reflective Terminations (BNC)

BNC-TM Series



■ Features

1. High Performance

These wide bandwidth/ultra high matching non-reflective termination use Hirose Electric original high frequency matching technology.

2. Full Assortment of 50 ohms and 75 ohms Types

In addition to the 50 ohms impedance type, plugs and jacks are available in a 75 ohms type.

■ Product Specifications

| | | | | |
|---------|--|---|--|----------------------------|
| Ratings | Frequency range (Note) Characteristic impedance Maximum Input Power (Note) | DC to 3.0 GHz 50 ohms, 75 ohms 0.5 to 1 W | Operating temperature range Operating relative humidity | -10°C to +65°C 95% Max. |
|---------|--|---|--|----------------------------|

Note: The frequency range and the maximum input power will differ depending on the products.

| Item | Standard | Conditions |
|----------------------|--|---|
| 1. Vibration | No electrical discontinuity of 1 μs or more No damage, cracks, or parts dislocation | Frequency of 10 to 2000 Hz, overall amplitude of 1.52 mm, acceleration of 98 m/s ² for 2 hours in each of 3 directions |
| 2. Shock | | Acceleration of 490 m/s ² , sine half-wave waveform, 3 cycles in each of the 3 axis |
| 3. Temperature cycle | No electrical discontinuity of 1 μs or more | Temperature: -55°C → +15°C to +35°C → +85°C → +15°C to +35°C Time: 30 → 15 max. → 30 → 15 max. (Minutes) 100 cycles |

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

■ Materials

| Part | Material | Finish |
|-----------------|------------------|----------------|
| Connector Body | Brass | Nickel plating |
| Insulator | PTFE | — |
| Male contacts | Brass | Gold plating |
| Female contacts | Beryllium copper | Gold plating |
| Resistor | Metal film | — |
| Cover | PVC | — |

■ Ordering Information

BNC - T M P - 05 - 1 (41)
 ① ② ③ ④ ⑤ ⑥

| | |
|--|---|
| ① Series Name: BNC Series | ④ Power (Example) : 05: 0.5 W 1 : 1 W |
| ② TM: Indicates a non-reflective termination | |
| ③ Connector type P: Plug type J: Jack type | ⑤ Suffix |
| | ⑥ (4*): RoHS Compliant |

BNC-TM Series Non-reflective Terminations (BNC)

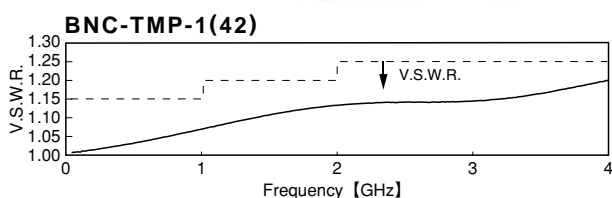
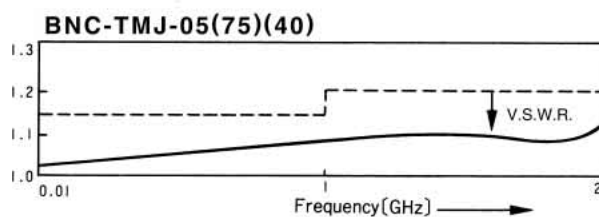
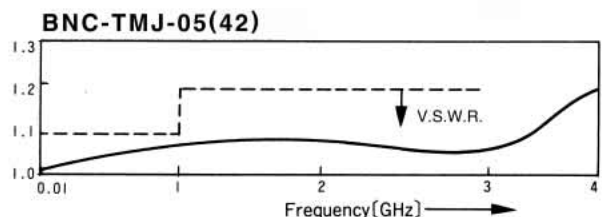
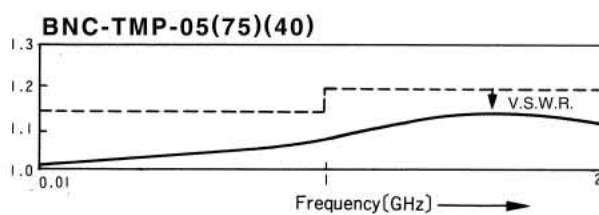
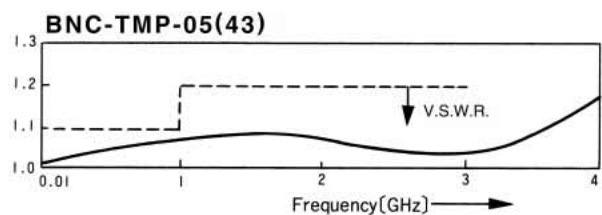
Specifications

| Part Number | Frequency Range (GHz) | V.S.W.R. (Max) | Power (W) | Impedance (Ohms) | Direct Current Resistance | Connectors | Weight (g) | RoHS |
|---------------------|-----------------------|----------------|-----------|------------------|---------------------------|------------|------------|------|
| BNC-TMP-05(43) | DC~1 1~3 | 1.10 | 0.5 | 50 | 50±0.5 | BNC-P | 15 | YES |
| BNC-TMJ-05(42) | | 1.20 | 0.5 | 50 | 50±0.5 | BNC-J | 10 | |
| ※1 BNC-TMP-05-1(41) | DC~0.1 | 1.10 | 0.5 | 50 | 50±0.5 | BNC-P | 15 | |
| ※1 BNC-TMJ-05-1(41) | | | 0.5 | 50 | 50±0.5 | BNC-J | 10 | |
| ※2 BNC-TMP-05-2(42) | DC~1 1~3 | 1.10 | 0.5 | 50 | 50±0.5 | BNC-P | 16 | |
| ※2 BNC-TMJ-05-2(42) | | 1.20 | 0.5 | 50 | 50±0.5 | BNC-J | 11 | |
| BNC-TMP-05(75)(40) | DC~0.5 0.5~2 | 1.15 | 0.5 | 75 | 75±2.25 | BNC-P(75) | 14 | |
| BNC-TMJ-05(75)(40) | | 1.20 | 0.5 | 75 | 75±2.25 | BNC-J(75) | 9 | |
| BNC-TMP-1(42) | DC~1 | 1.15 | 1 | 50 | 50±2 | BNC-P | 16 | |
| | 1~2 | 1.20 | | | | | | |
| | 2~4 | 1.25 | | | | | | |

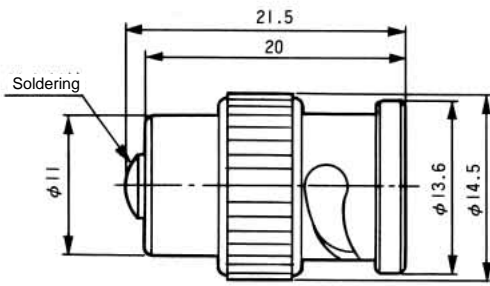
※1 Low-cost items with DC to 100 MHz bandwidth limit.

※2 Cover fitting type

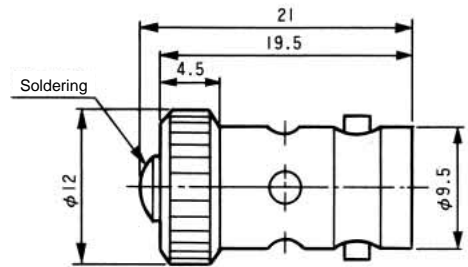
Typical Data



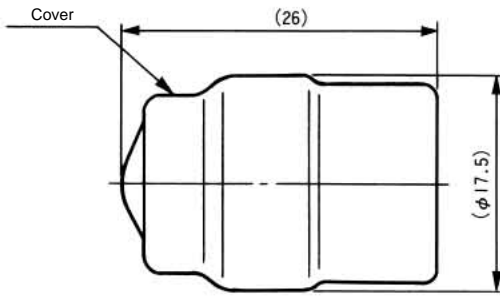
External Dimensions



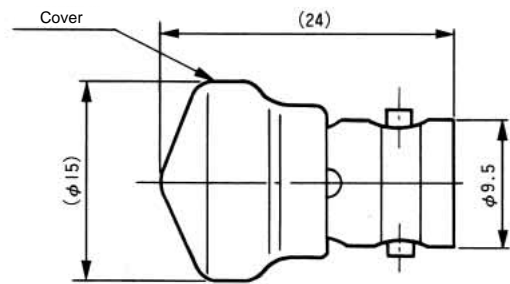
BNC - TMP - 05(43)
BNC - TMP - 05-1(41)
BNC - TMP - 05(75)(40)



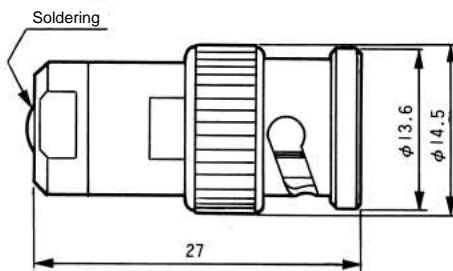
BNC - TMJ - 05(42)
BNC - TMJ - 05-1(41)
BNC - TMJ - 05(75)(40)



BNC - TMP - 05-2(42)



BNC - TMJ - 05-2(42)



BNC - TMP - 1(42)

※BNC-TMP/TMJ-05 Series have a 50 ohms or 75 ohms indication for each characteristic impedance.

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