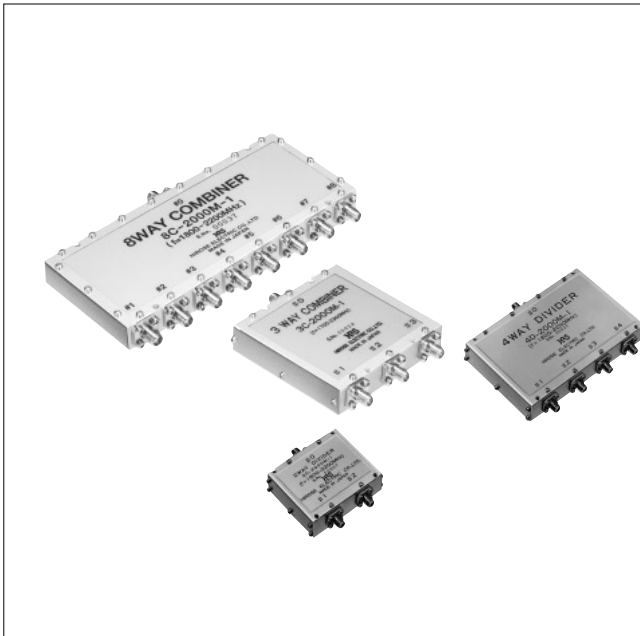


2 GHz Band Power Dividers/Combiners

C/D Series



■Features

1.Division System

The micro stripline method, which uses the principle of the $\lambda/4$ impedance converter, provides excellent high frequency performance.

2.High Performance

The low insertion loss and high isolation (of over 20 dB) afforded by the Wilkinson circuit structure make these power dividers ideal for use in portable telephone base stations, measuring instruments, and for measurements.

3.Highly Reliable Design

Connectors are of the SMA type and use stainless steel for extremely high performance.

The case uses corrosion-resistant aluminum and is both miniature and lightweight.

■Product Specifications

| | | | | |
|---------|--|--|--|----------------------------|
| Ratings | Frequency range Characteristic impedance Maximum Input Power | 1.7 to 2.3 GHz 50 ohms 1 to 25 W | Operating temperature range Operating relative humidity | -10°C to +65°C 95% Max. |
|---------|--|--|--|----------------------------|

●Please see the specification items for details concerning insertion loss, VSWR, and isolation.

| Item | Standard | Conditions |
|---------------------|---|---|
| 1.Vibration | No damage, cracks, or parts dislocation | Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 axis |
| 2.Shock | | Acceleration of 294 m/s ² , sine half-wave waveform, 3 cycles in each of the 3 axis |
| 3.Temperature cycle | | Temperature: -40°C → +15°C to +35°C → +85°C → +15°C to +35°C Time: 30 → 2 to 3 max. → 30 → 2 to 3 max. (Minutes) 100 cycles |

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

■Materials

| Part | Material | Finish |
|---------------------------|------------------|--------------------------|
| Connector Body | Stainless steel | Passivated |
| Connector female contacts | Beryllium copper | Gold plating |
| Connector Insulator | PTFE | ----- |
| Cover | Aluminum | Conductive white alumite |
| Case | Aluminum | Conductive white alumite |
| Board | Dielectric | Solder coating |

■Ordering Information

2 D - 2000M - 2
 ① ② ③ ④

| |
|---|
| ① Number of Divisions (Number of Combination) |
| ② Series Name: D: Divider C: Combiner |
| ③ Center Frequency 2000M : 2000MHz |
| ④ Suffix |

2WAY POWER DIVIDER

■SPECIFICATION

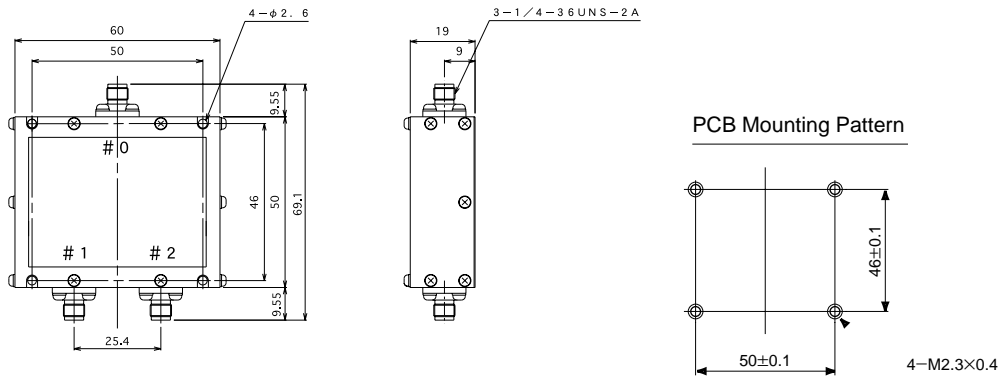
| Part Number | Frequency Range (GHz) | Insertion Loss (dB Max) | V.S.W.R. (Max) | Isolation (dB Min) | Power (W) | Weight (g) |
|-------------|-----------------------|-------------------------|----------------|--------------------|-----------|------------|
| 2D-2000M-1 | 1.8~2.2 | ※(1) 0.4 | ※(2) 1.3 | ※(3) 20 | 20 | 110 |

※(1)The value of the insertion loss is the insertion loss minus the calculation value of 3 dB.

※(2)The V.S.W.R. is applicable to port #0, #1, and #2. (See the Dimensions Diagram for the port numbers.)

※(3)Applicable between the divider contacts.

■External Dimensions



4WAY POWER DIVIDER

■SPECIFICATION

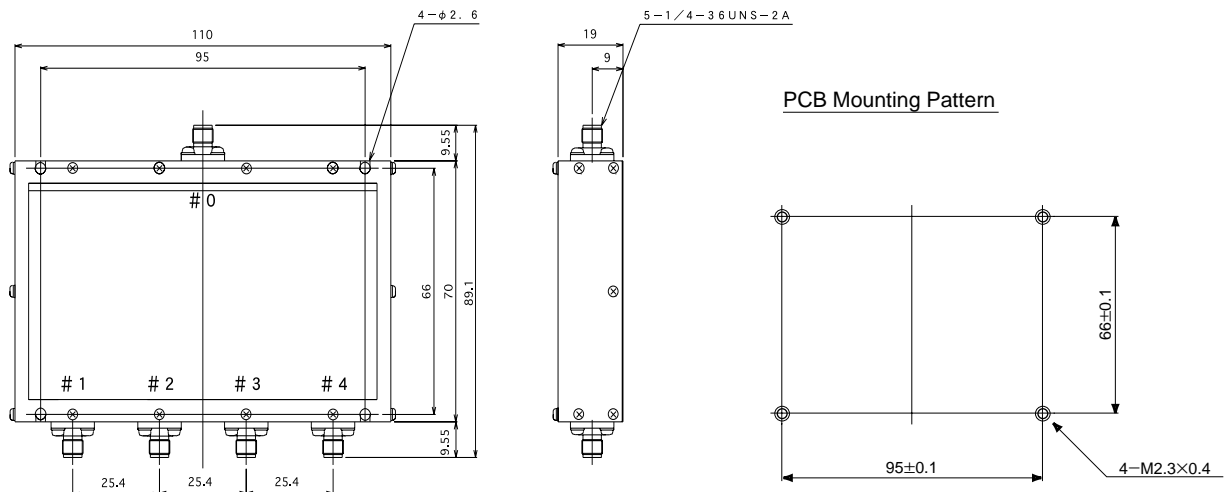
| Part Number | Frequency Range (GHz) | Insertion Loss (dB Max) | V.S.W.R. (Max) | Isolation (dB Min) | Power (W) | Weight (g) |
|-------------|-----------------------|-------------------------|----------------|--------------------|-----------|------------|
| 4D-2000M-1 | 1.8~2.2 | ※(1) 0.6 | ※(2) 1.3 | ※(3) 20 | 20 | 260 |

※(1)The value of the insertion loss is the insertion loss minus the calculation value of 6 dB.

※(2)The V.S.W.R. is applicable to port #0, #1, #2, #3, and #4. (See the Dimensions Diagram for the port numbers.)

※(3)Applicable between the divider contacts.

■External Dimensions



8WAY POWER DIVIDER

SPECIFICATION

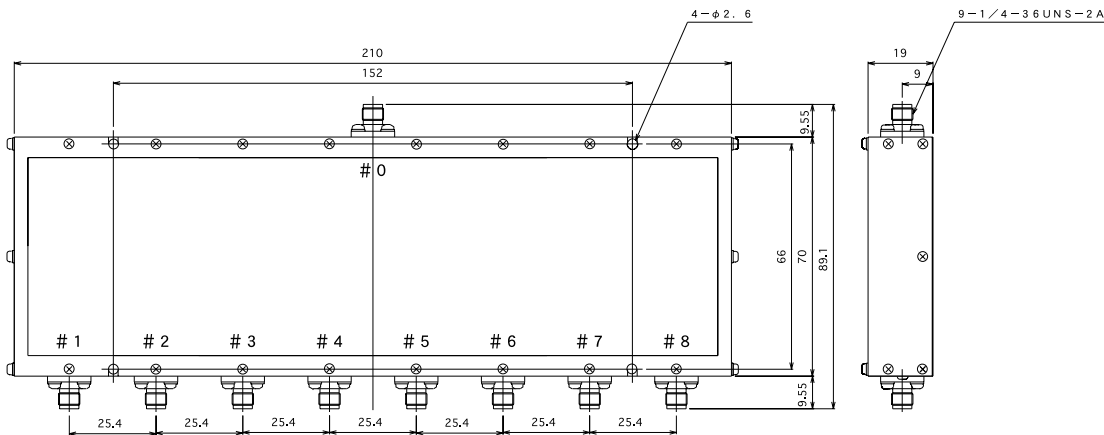
| Part Number | Frequency Range (GHz) | Insertion Loss (dB Max) | V.S.W.R. (Max) | Isolation (dB Min) | Power (W) | Weight (g) |
|-------------|-----------------------|-------------------------|----------------|--------------------|-----------|------------|
| 8D-2000M-1 | 1.8~2.2 | ※(1) 1 | ※(2) 1.3 | ※(3) 20 | 20 | 480 |

※(1)The value of the insertion loss is the insertion loss minus the calculation value of 9 dB.

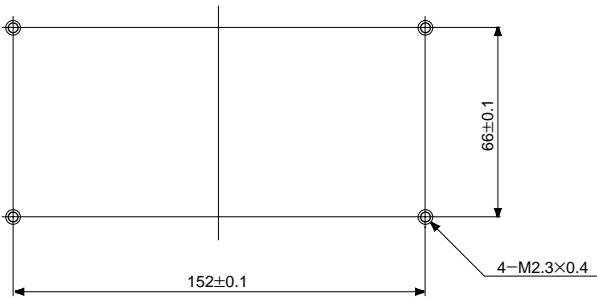
※(2)The V.S.W.R. is applicable to port #0, #1, #2, #3, #4, #5, #6, #7, and #8. (See the Dimensions Diagram for the port numbers.)

※(3)Applicable between the divider contacts.

External Dimensions



PCB Mounting Pattern



3WAY POWER COMBINER

■SPECIFICATION

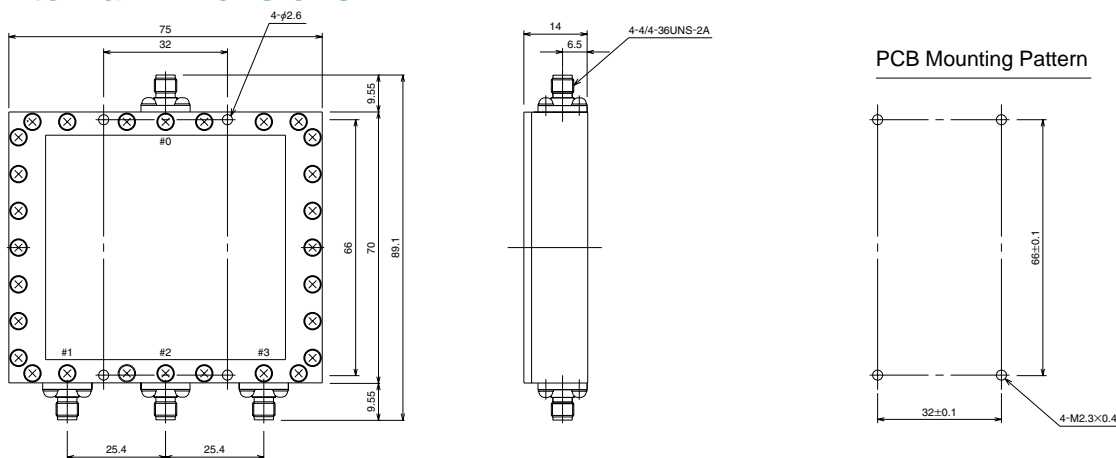
| Part Number | Frequency Range (GHz) | Insertion Loss (dB Max) | V.S.W.R. (Max) | Isolation (dB Min) | Power (W) | Weight (g) |
|-------------|-----------------------|-------------------------|----------------|--------------------|-----------|------------|
| 3C-2000M-1 | 1.7~2.3 | ※(1) 0.5 | ※(2) 1.25 | ※(3) 22 | 1 | 135 |

※(1)The value of the insertion loss is the insertion loss minus the calculation value of 4.8 dB.

※(2)The V.S.W.R. is applicable to port #0, #1, #2, and #3. (See the Dimensions Diagram for the port numbers.)

※(3)Applicable between the divider contacts.

■External Dimensions



8WAY POWER COMBINER

■SPECIFICATION

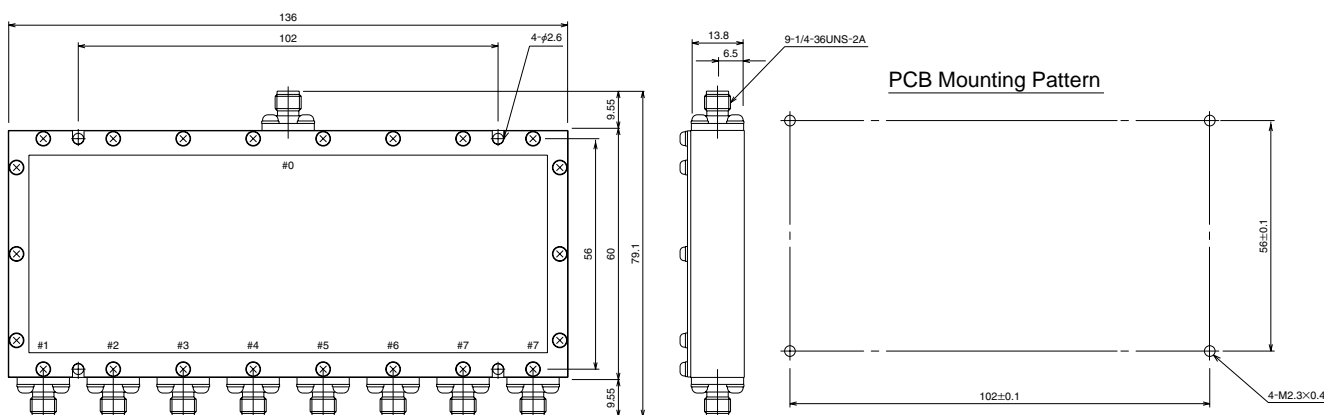
| Part Number | Frequency Range (GHz) | Insertion Loss (dB Max) | V.S.W.R. (Max) | Isolation (dB Min) | Power (W) | Weight (g) |
|-------------|-----------------------|-------------------------|----------------|--------------------|-----------|------------|
| 8C-2000M-1 | 1.8~2.2 | ※(1) 1 | ※(2) 1.3 | ※(3) 20 | 2.5 | 240 |

※(1)The value of the insertion loss is the insertion loss minus the calculation value of 6 dB.

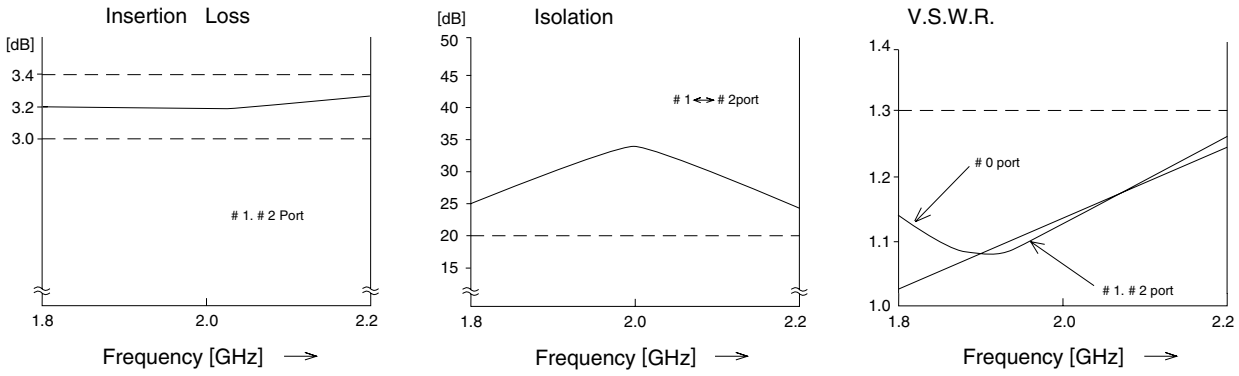
※(2)The V.S.W.R. is applicable to port #0, #1, #2, #3, #4, #5, #6, #7, and #8. (See the Dimensions Diagram for the port numbers.)

※(3)Applicable between the divider contacts.

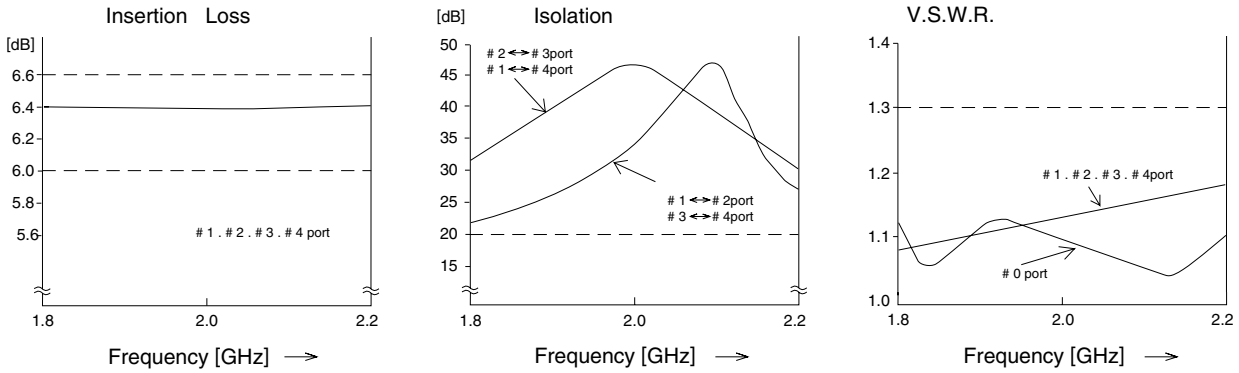
■External Dimensions



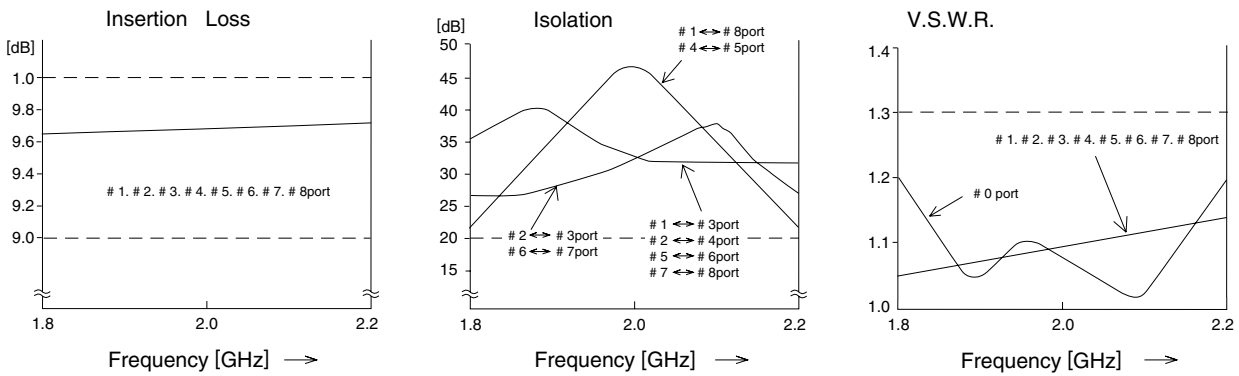
2D-2000M-1



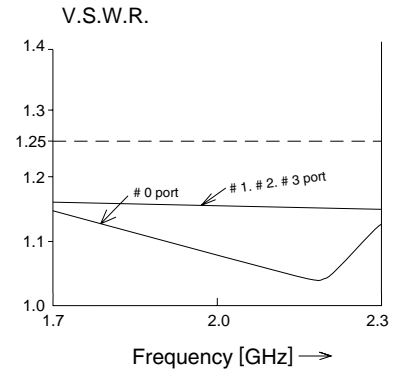
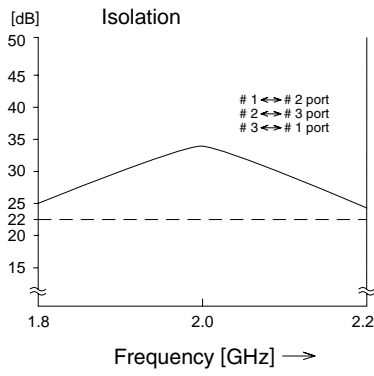
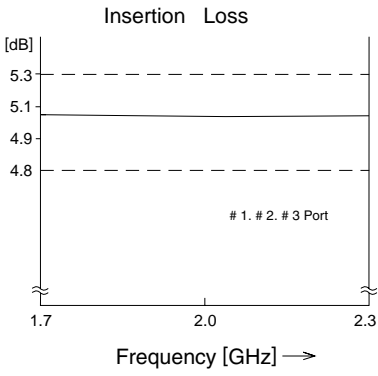
4D-2000M-1



8D-2000M-1



3C-2000M-1



8C-2000M-1

