

# DC BLOCK SERIES 1100

SUHNER series 1100 DC block connectors contain a center conductor with a series capacitor of approx. 3 nF (ceramic chip). This prevents the flow of DC or

LF currents while permitting RF signals to pass through with negligible loss.

## BNC, N 50 Ω

## 10 MHz – 5 GHz

| SUHNER Type | Ident. No. | Connector     | VSWR <sup>1)</sup> |        |        | Attenuation <sup>2)</sup> |          |          | Weight | Fig. |
|-------------|------------|---------------|--------------------|--------|--------|---------------------------|----------|----------|--------|------|
|             |            |               | 1 GHz              | 2 GHz  | 5 GHz  | 1 GHz                     | 2 GHz    | 5 GHz    |        |      |
| 1100.01.A   | 550233     | BNC male/fem. | ≤ 1.10             | ≤ 1.15 | ≤ 1.30 | ≤ 0.1 dB                  | ≤ 0.2 dB | ≤ 0.5 dB | 25 g   | 82   |
| 1100.17.A   | 550232     | N male/fem.   | ≤ 1.10             | ≤ 1.15 | ≤ 1.30 | ≤ 0.1 dB                  | ≤ 0.2 dB | ≤ 0.5 dB | 68 g   | 83   |

1) VSWR ≤ 1.2 from 10 to 15 MHz

2) Attenuation in the LF range:  
 15 dB at 100 kHz  
 35 dB at 10 kHz  
 55 dB at 1 kHz

Voltage Rating: 250V DC

Capacitance: 3 nF nominal

## BNC 75 Ω

## 10 MHz – 1.2 GHz

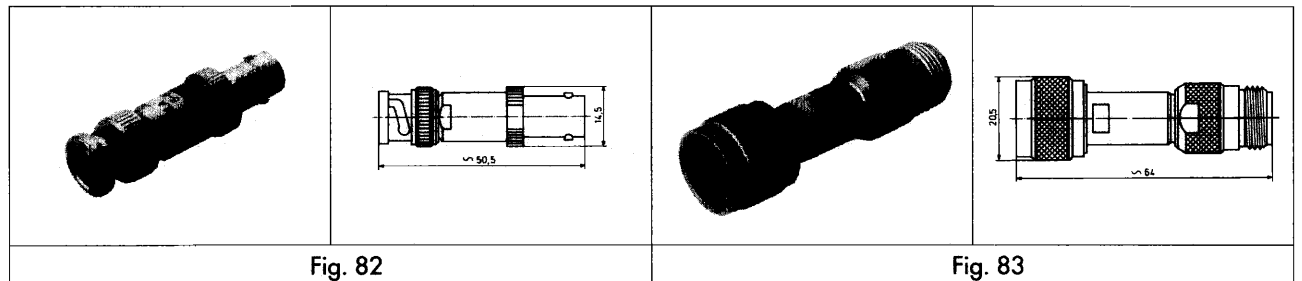
| SUHNER Type | Ident. No. | Connector            | VSWR <sup>1)</sup> |         | Attenuation <sup>2)</sup> |          | Weight | Fig. |
|-------------|------------|----------------------|--------------------|---------|---------------------------|----------|--------|------|
|             |            |                      | 400 MHz            | 1.2 GHz | 400 MHz                   | 1.2 GHz  |        |      |
| 1100.02.A   | 543734     | BNC 75 Ω male/female | ≤ 1.10             | ≤ 1.20  | ≤ 0.1 dB                  | ≤ 0.1 dB | 23 g   | 82   |

1) VSWR ≤ 1.2 from 10 to 15 MHz

2) Attenuation in the LF range:  
 15 dB at 100 kHz  
 35 dB at 10 kHz  
 55 dB at 1 kHz

Voltage Rating: 250V DC

Capacitance: 3 nF nominal



# DC BLOCK SERIES 1100

**SMA 50 Ω**

**0.1 - 18 GHz**

| SUHNER<br>Type   | Ident.<br>No. | Connector     | VSWR   |        | Attenuation <sup>1)</sup> |          |           | Weight | Fig. |
|------------------|---------------|---------------|--------|--------|---------------------------|----------|-----------|--------|------|
|                  |               |               | 8 GHz  | 18 GHz | 0.1-3 GHz                 | 3-10 GHz | 10-18 GHz |        |      |
| <b>1100.19.A</b> | 645271        | SMA male/fem. | ≤ 1.25 | ≤ 1.35 | ≤ 0.5 dB <sup>2)</sup>    | ≤ 0.3 dB | ≤ 0.5 dB  | 5 g    | 84   |

1) typ. Attenuation =  $0.1 + 0.017 \cdot f$  [GHz]

2) Attenuation in the LF range:  
 1 dB at 30 MHz  
 6 dB at 10 MHz  
 20 dB at 1 MHz  
 30 dB at 0.5 MHz

Voltage Rating: 50V DC  
 Capacitance: 100 pF nominal

