

**DC BLOCK, 50 Ohm, N**

1100.17.A

**Properties**

- RF signal passes with negligible loss
- Galvanik isolation of centre conductor
- Blocking of DC
- Broadband

**Interface and material data**

|                                    |                                                    |
|------------------------------------|----------------------------------------------------|
| <b>Interface side 1</b>            | N / plug (male)                                    |
| Standard side 1                    | IEC 60169-16_MIL-STD-348A/304_CECC 22210           |
| Center contact, material / plating | Brass / Gold Plating (without Nickel underplating) |
| Outer contact, material / plating  | Brass / Silver / SUCOPLATE (R) Plating             |
| Body, material / plating           | Brass / SUCOPLATE (R) Plating                      |
| Insulator, material                | PFA / PTFE                                         |
| Coupling nut, material / plating   | Brass / SUCOPLATE (R) Plating                      |
| Gasket material                    | VMQ (Silicone rubber)                              |
| <b>Interface side 2</b>            | N / jack (female)                                  |
| Standard side 2                    | IEC 60169-16_MIL-STD-348A/304_CECC 22210           |
| Outer contact, material / plating  | Brass / SUCOPLATE (R) Plating                      |
| Body, material / plating           | Brass / SUCOPLATE (R) Plating                      |
| Insulator, material                | PFA / PTFE                                         |

**Electrical data**

|                        |                         |
|------------------------|-------------------------|
| Impedance              | 50 $\Omega$             |
| Frequency frame        | 0.01 GHz to 5 GHz       |
| Return loss typical    | 20 dB                   |
| Insertion loss typical | 0.5 dB                  |
| Attenuation nominal    | 17 dB typ. at 0.1 MHz   |
|                        | 37 dB typ. at 0.01 MHz  |
|                        | 57 dB typ. at 0.001 MHz |
| Capacitance            | 2.1 nF                  |
| Voltage rating max     | 250 V DC                |

**Electrical bands**

|                     | Band 1              | Band 2          | Band 3          |
|---------------------|---------------------|-----------------|-----------------|
| Frequency range     | 0.001 GHz ... 1 GHz | 1 GHz ... 2 GHz | 2 GHz ... 5 GHz |
| Return loss typical | 26.44 dB            | 23.12 dB        | 17.69 dB        |

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| Electrical bands           |        |                                                                                            |        |
|----------------------------|--------|--------------------------------------------------------------------------------------------|--------|
|                            | Band 1 | Band 2                                                                                     | Band 3 |
| Insertion loss             | 0.1 dB | 0.2 dB                                                                                     | 0.5 dB |
| VSWR max side 1            | 1.1    | 1.15                                                                                       | 1.3    |
|                            |        |                                                                                            |        |
| Electrical remarks         |        |                                                                                            |        |
| Power rating               |        | 100 W at 25 °C ambient temperature. Linearly derated to 40 W at 85 °C ambient temperature. |        |
| Block type                 |        | inner only                                                                                 |        |
|                            |        |                                                                                            |        |
| Mechanical data            |        |                                                                                            |        |
| Weight                     |        | 0.068 kg                                                                                   |        |
|                            |        |                                                                                            |        |
| Environmental data         |        |                                                                                            |        |
| Operation temperature      |        | -40 °C ... 85 °C                                                                           |        |
|                            |        |                                                                                            |        |
| Ordering Information Table |        |                                                                                            |        |
| Item number                |        | Item description                                                                           |        |
| 22550232                   |        | 1100.17.A                                                                                  |        |

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