



**THE DATASHEET OF
BLK-6-N+**



Coaxial DC Block N-Type

50Ω 10 MHz to 6 GHz

BLK-6+



CASE STYLE: FF779

| Connectors | Model |
|------------|----------|
| N-Type | BLK-6-N+ |

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Maximum Ratings

| | |
|-----------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| DC Input Voltage | 50V Max. |

Permanent damage may occur if any of these limits are exceeded.

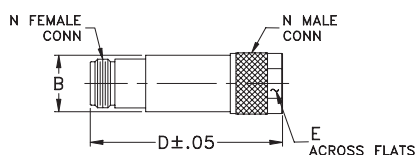
Features

- Low insertion loss
- Rugged unibody construction
- Off-the-shelf availability

Application

- Test and measurement instrumentation
- Communication systems
- Defense systems

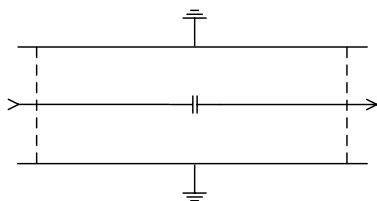
Outline Drawing



Outline Dimensions (inch/mm)

| B | D | E | wt. |
|-------|-------|-------|-------|
| .68 | 2.11 | .718 | grams |
| 17.27 | 53.59 | 18.24 | 72.5 |

Electrical Schematic

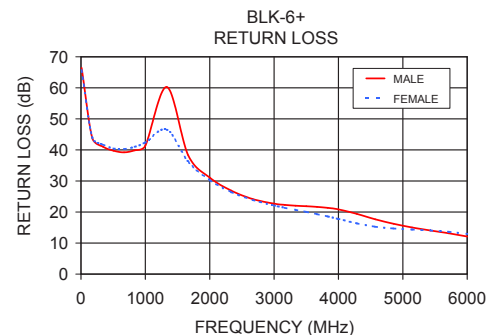
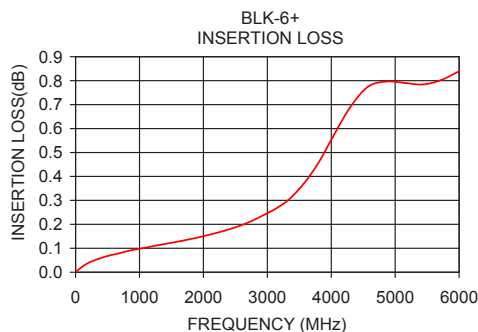


Electrical Specifications at 25°C

| FREQUENCY (MHz) | INSERTION LOSS (dB) | | RETURN LOSS (dB) | |
|-----------------|---------------------|------|------------------|------|
| | Typ. | Max. | Typ. | Min. |
| 10 - 1000 | 0.05 | 0.25 | 45 | 28 |
| 1000 - 3000 | 0.12 | 0.70 | 30 | 18 |
| 3000 - 4000 | 0.25 | 0.90 | 22 | 14 |
| 4000 - 6000 | 0.50 | 1.20 | 17 | - |

Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | Return Loss (dB) | |
|-----------------|---------------------|------------------|--------|
| | | Male | Female |
| 10 | 0.00 | 66.43 | 65.67 |
| 175 | 0.03 | 43.89 | 44.05 |
| 340 | 0.05 | 41.05 | 41.77 |
| 505 | 0.06 | 39.74 | 40.45 |
| 670 | 0.08 | 39.23 | 40.29 |
| 835 | 0.09 | 39.87 | 40.99 |
| 1000 | 0.10 | 41.36 | 42.38 |
| 2000 | 0.15 | 31.09 | 30.24 |
| 2667 | 0.21 | 24.19 | 23.87 |
| 3000 | 0.25 | 22.69 | 22.09 |
| 3333 | 0.31 | 22.04 | 20.68 |
| 3500 | 0.35 | 21.86 | 20.04 |
| 3833 | 0.46 | 21.33 | 18.57 |
| 4000 | 0.54 | 20.84 | 17.77 |
| 4571 | 0.76 | 17.64 | 15.26 |
| 5714 | 0.77 | 13.15 | 13.62 |
| 6000 | 0.81 | 12.10 | 12.92 |





Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
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