

COAXIAL COMMUNICATION BANDS

N TYPE BROAD BANDS ISOLATORS

PRODUCT DESCRIPTION

RFCI has developed a series Coaxial Isolators specifically designed for each frequency band to be a compromise among size, electrical performance and cost. All standard devices are supplied with Female connector.



- ❖ N Female is Standard Products. Available with alternative configuration such as male connectors, high power termination and reverse rotation direction.
- ❖ S-parameters are available upon request.

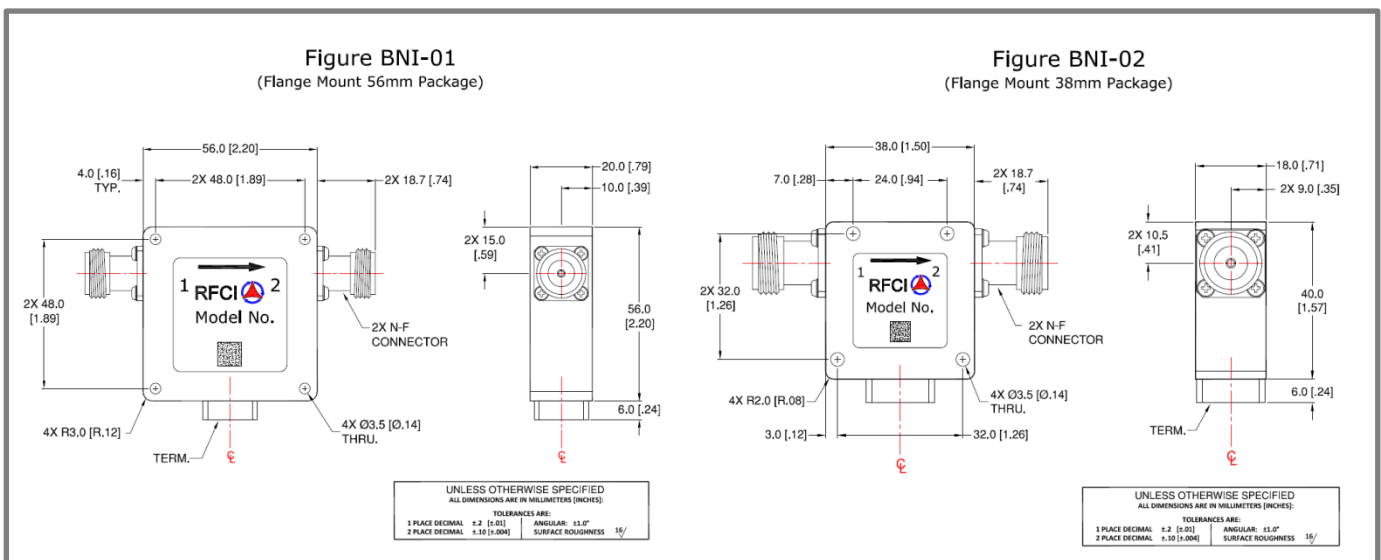
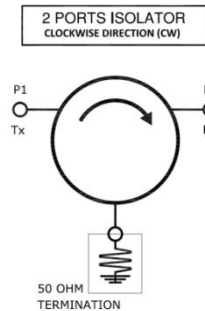


ISOLATOR OUTLINE DRAWING

KEY FEATURES

- Package Isolator with Thru Mounting Holes for easy installation from top.
- Robust Construction for High Reliability performance
- RoHS compliant
- Low typical Insertion loss, High Isolation
- Magnetically Shielded.

FUNCTION DIAGRAM

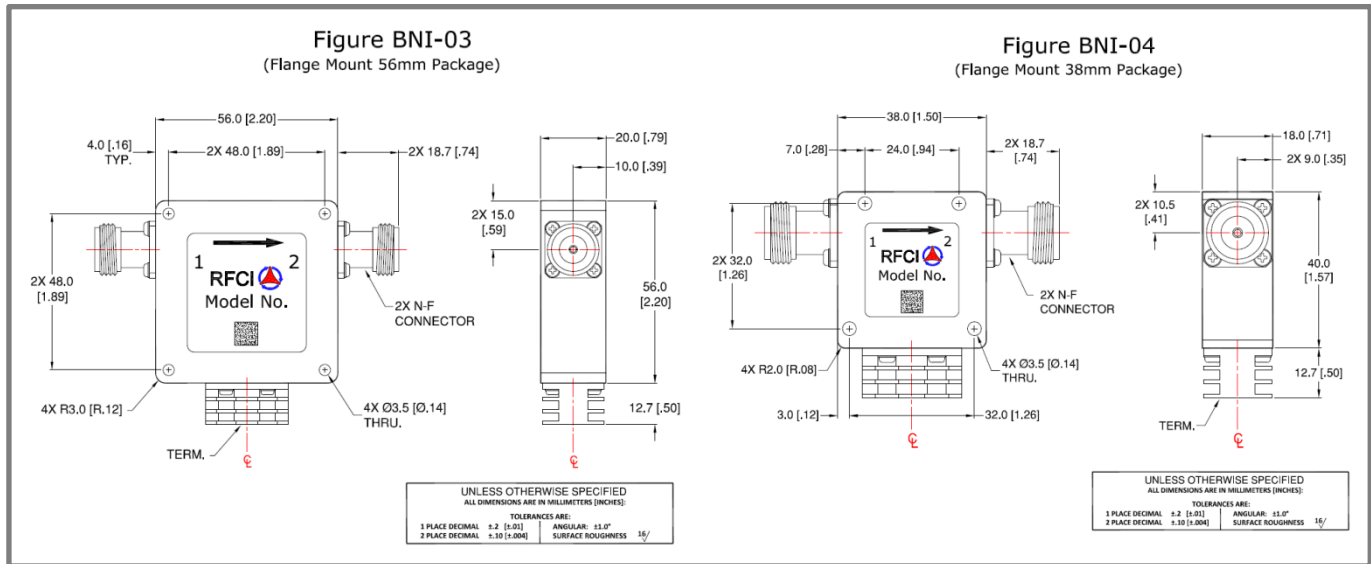


20 Watts N Type Broad Bands Isolator

| Frequency Range (MHz) | | Insertion Loss (dB) | Isolation (dB) | Return Loss (dB) | Fwd. PWR P/CW (W) | Rev PWR CW (W) | Operating Temperature (°C) | Package Outline FIG. | RFCI Part No. |
|-----------------------|------|---------------------|----------------|------------------|-------------------|----------------|----------------------------|----------------------|------------------|
| Low | High | Room/OT | Room/OT | Room/OT | Max. | Max. | | | |
| 800 | 2000 | 0.60/0.85 | 16/14.5 | 16/14.5 | 500/50 | 20 | -0 to +50°C | BNI-01 | RFSL8458N |
| 800 | 1400 | 0.50/0.60 | 16/15 | 16/15 | 500/50 | 20 | -0 to +50°C | BNI-01 | RFSL8461N |
| 900 | 1500 | 0.40/0.60 | 20/19 | 20/19 | 500/50 | 20 | -0 to +50°C | BNI-01 | RFSL8462N |
| 1000 | 2000 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 20 | -0 to +50°C | BNI-01 | RFSL8452N |
| 1250 | 2500 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 20 | -0 to +50°C | BNI-01 | RFSL8551N |
| 1300 | 2600 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 20 | -0 to +50°C | BNI-01 | RFSL8553N |
| 1350 | 2700 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 20 | -0 to +50°C | BNI-01 | RFSL8555N |
| 1500 | 3000 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 20 | -10 to +65°C | BNI-02 | RFSL8753N |
| 1600 | 3200 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 20 | -10 to +65°C | BNI-02 | RFSL8755N |
| 1500 | 4000 | 0.80/1.00 | 15/14 | 15/14 | 500/50 | 20 | -10 to +65°C | BNI-02 | RFSL8759N |
| 1700 | 4200 | 0.50/0.70 | 16/15 | 16/15 | 500/50 | 20 | -10 to +65°C | BNI-02 | RFSL8757N |
| 2000 | 6000 | 1.00/1.40 | 13/12.5 | 13/12.5 | 500/50 | 20 | -20 to +65°C | BNI-02 | RFSL8951N |
| 2000 | 4000 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 20 | -20 to +85°C | BNI-02 | RFSL8851N |
| 2000 | 3000 | 0.40/0.50 | 21/20 | 21/20 | 500/50 | 20 | -20 to +85°C | BNI-02 | RFSL8865N |
| 2100 | 4200 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 20 | -20 to +85°C | BNI-02 | RFSL8856N |
| 2300 | 6000 | 0.70/0.80 | 15/14 | 15/14 | 500/50 | 20 | -20 to +85°C | BNI-02 | RFSL8986N |
| 2500 | 6200 | 0.80/1.00 | 14/13 | 14/13 | 500/50 | 20 | -20 to +85°C | BNI-02 | RFSL8866N |
| 2500 | 5500 | 0.60/0.80 | 16/15 | 16/15 | 500/50 | 20 | -20 to +85°C | BNI-02 | RFSL8867N |
| 2500 | 5000 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 20 | -20 to +85°C | BNI-02 | RFSL8858N |
| 2600 | 5200 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 20 | -20 to +85°C | BNI-02 | RFSL8862N |
| 2700 | 6200 | 0.60/0.80 | 16/15 | 16/15 | 500/50 | 20 | -20 to +85°C | BNI-02 | RFSL8987N |

Standard Part Number is N Female and Clockwise (CW) Rotation. Add letter "R" at the end to Part number for a Counter Clockwise (CCW) Rotation.

See RFCI website www.rf-ci.com for complete part datasheet



50 Watts N Type Broad Bands Isolator

| Frequency Range (MHz) | | Insertion Loss (dB) | | Return Loss (dB) | Fwd. PWR P/CW (W) | Rev PWR CW (W) | Operating Temperature (°C) | Package Outline FIG. | RFICI Part No. |
|-----------------------|------|---------------------|---------|------------------|-------------------|----------------|----------------------------|----------------------|----------------------|
| Low | High | Room/OT | Room/OT | Room/OT | Max. | Max. | | | |
| 800 | 2000 | 0.60/0.85 | 16/14.5 | 16/14.5 | 500/50 | 50 | -0 to +50°C | BNI-03 | RFSL8458N-T50 |
| 800 | 1400 | 0.50/0.60 | 16/15 | 16/15 | 500/50 | 50 | -0 to +50°C | BNI-03 | RFSL8461N-T50 |
| 900 | 1500 | 0.40/0.60 | 20/19 | 20/19 | 500/50 | 50 | -0 to +50°C | BNI-03 | RFSL8462N-T50 |
| 1000 | 2000 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 50 | -0 to +50°C | BNI-03 | RFSL8452N-T50 |
| 1250 | 2500 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 50 | -0 to +50°C | BNI-03 | RFSL8551N-T50 |
| 1300 | 2600 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 50 | -0 to +50°C | BNI-03 | RFSL8553N-T50 |
| 1350 | 2700 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 50 | -0 to +50°C | BNI-03 | RFSL8555N-T50 |
| 1500 | 3000 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 50 | -10 to +65°C | BNI-04 | RFSL8753N-T50 |
| 1600 | 3200 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 50 | -10 to +65°C | BNI-04 | RFSL8755N-T50 |
| 1500 | 4000 | 0.80/1.00 | 15/14 | 15/14 | 500/50 | 50 | -10 to +65°C | BNI-04 | RFSL8759N-T50 |
| 1700 | 4200 | 0.50/0.70 | 16/15 | 16/15 | 500/50 | 50 | -10 to +65°C | BNI-04 | RFSL8757N-T50 |
| 2000 | 6000 | 1.00/1.40 | 13/12.5 | 13/12.5 | 500/50 | 50 | -20 to +65°C | BNI-04 | RFSL8951N-T50 |
| 2000 | 4000 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 50 | -20 to +85°C | BNI-04 | RFSL8851N-T50 |
| 2000 | 3000 | 0.40/0.50 | 21/20 | 21/20 | 500/50 | 50 | -20 to +85°C | BNI-04 | RFSL8865N-T50 |
| 2100 | 4200 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 50 | -20 to +85°C | BNI-04 | RFSL8856N-T50 |
| 2300 | 6000 | 0.70/0.80 | 15/14 | 15/14 | 500/50 | 50 | -20 to +85°C | BNI-04 | RFSL8986N-T50 |
| 2500 | 6200 | 0.80/1.00 | 14/13 | 14/13 | 500/50 | 50 | -20 to +85°C | BNI-04 | RFSL8866N-T50 |
| 2500 | 5500 | 0.60/0.80 | 16/15 | 16/15 | 500/50 | 50 | -20 to +85°C | BNI-04 | RFSL8867N-T50 |
| 2500 | 5000 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 50 | -20 to +85°C | BNI-04 | RFSL8858N-T50 |
| 2600 | 5200 | 0.50/0.70 | 19/17 | 19/17 | 500/50 | 50 | -20 to +85°C | BNI-04 | RFSL8862N-T50 |
| 2700 | 6200 | 0.60/0.80 | 16/15 | 16/15 | 500/50 | 50 | -20 to +85°C | BNI-04 | RFSL8987N-T50 |

Standard Part Number is N Female and Clockwise (CW) Rotation. Add letter “R” at the end of Part number for a Counter Clockwise (CCW) Rotation

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