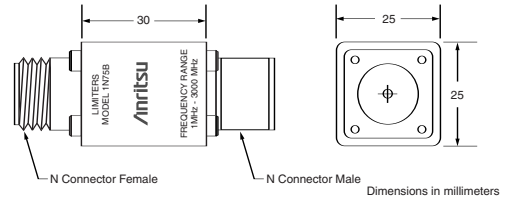
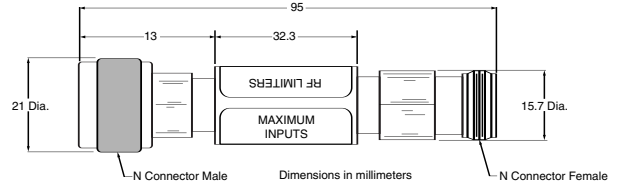


# LIMITERS

1 Series 1 MHz to 26.5 GHz



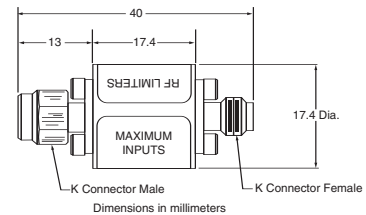
1N50B and 1N75B Limiters outline



1N50C and 1N75C Limiters outline

## Broadband microwave limiter features

- High power protection: Up to 5 Watts
- Very fast turn-on time: 10 ns max.
- Broad frequency range: 0.001 to 26.5 GHz
- Low insertion loss: 2.7 dB to 20 GHz
- Excellent return loss: 11 dB at 20 GHz
- Single side limiting



1K50A and 1K50B Limiters outline

## Specifications

| Model | Frequency range  | Max. input power | Min. return loss (at 0 dBm input) | Max. insertion loss (at 0 dBm input) | Max. turn-on time | Input connector | Output connector | Input/output coupling |
|-------|------------------|------------------|-----------------------------------|--------------------------------------|-------------------|-----------------|------------------|-----------------------|
| 1K50B | 0.01 to 26.5 GHz | 3 Watts          | 10 dB                             | 3.9 dB                               | 10 ns             | K(m)            | K(f)             | DC                    |
| 1K50A | 0.01 to 20 GHz   | 5 Watts          | 14 dB, ≤12 GHz<br>11 dB, >12 GHz  | 2.7 dB                               | 10 ns             | K(m)            | K(f)             | DC                    |
| 1N50C | 0.01 to 18 GHz   | 5 Watts          | 14 dB, ≤12 GHz<br>11 dB, >12 GHz  | 2.9 dB                               | 10 ns             | N(m)            | N(f)             | DC                    |
| 1N75C | 0.01 to 3 GHz    | 5 Watts          | 15 dB                             | 1.1 dB                               | 10 ns             | 75 Ω N(m)       | 75 Ω N(f)        | DC                    |
| 1N50B | 0.001 to 3 GHz   | 1.5 Watts        | 19 dB                             | 1.3 dB                               | 10 ns             | N(m)            | N(f)             | AC                    |
| 1N75B | 0.001 to 3 GHz   | 1.5 Watts        | 19 dB                             | 1.3 dB                               | 10 ns             | 75 Ω N(m)       | 75 Ω N(f)        | AC                    |

**Limiting Level:** Limiter begins compressing at approximately +10 dBm. In compression, output level increases by 0.25 to 0.5 dB for each 1 dB increase at the input. Output power at 5W input at 500 MHz is 21 dBm max.

**Dimensions:** 1N50B and 1N75B 3.8 cm x 2.5 cm x 2.5 cm

**Temperature range:** 0°C to +70°C

## Ordering information

Please specify model/order number, name and quantity when ordering.

| Model/Order No. | Name                                   |
|-----------------|--|
|                 | Limiter                                |
| 1N50B           | N(m) to N(f), 50 Ω, 1 MHz to 3 GHz     |
| 1N75B           | N(m) to N(f), 75 Ω, 1 MHz to 3 GHz     |
| 1N50C           | N(m) to N(f), 50 Ω, 10 MHz to 18 GHz   |
| 1N75C           | N(m) to N(f), 75 Ω, 10 MHz to 3 GHz    |
| 1K50A           | K(m) to K(f), 50 Ω, 10 MHz to 20 GHz   |
| 1K50B           | K(m) to K(f), 50 Ω, 10 MHz to 26.5 GHz |