

ZERO-BIASED SCHOTTKY DIODE DETECTOR RNZD SERIES



The RNZD series of diode detectors offers a low junction capacitance and excellent sensitivity and bandwidth. The response of the RNZD diode detectors is an order of magnitude faster than conventional PN diodes making them ideal for use in RF and microwave applications.

Features:

- Low Junction Capacitance
- Broadband performance
- Low VSWR
- Excellent flatness
- Positive or Negative Polarity

Applications:

- Power and Signal Monitors
- Transmitter Monitoring
- Radar and Missile Guidance Systems
- Test Equipment
- Medical Equipment

ELECTRICAL SPECIFICATIONS UNIVERSAL:

- Maximum Power Input: 100mW
- Video Resistance: 5K Ohms
- Operating/Storage Temperature Range: -55°C to +120°C

Part Number (See "Ordering Information" for Suffixes)	Frequency Range	VSWR MAX	Voltage Sensitivity (K-factor) (mV/mW) TYP	Flatness MAX	Video Capacitance (pF)
RNZD01-2	0.01 to 2 GHz	1.2:1	500	±0.20dB	470
RNZD01-4	0.01 to 4 GHz	1.3:1	500	±0.30dB	470
RNZD01-12	0.01 to 12.4 GHz	1.4:1	500	±0.30dB	470
RNZD01-18	0.01 to 18.5 GHz	1.5:1	400	±0.50dB	470
RNZD01-26	0.01 to 18 GHz 18 to 26.5 GHz	1.5:1 2.0:1	100	±0.50dB ±1.0dB	470
RNZD02-18	2 to 18 GHz	1.5:1	500	±0.40dB	20
RNZD02-4	2 to 4 GHz	1.2:1	500	±0.20dB	20
RNZD02-8	2 to 8 GHz	1.2:1	500	±0.20dB	20

ZERO-BIASED SCHOTTKY DIODE DETECTOR

RNZD SERIES "HIGH SENSITIVITY"

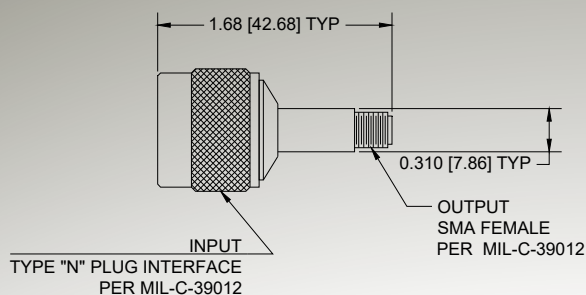


Part Number (See "Ordering Information" for Suffixes)	Frequency Range	VSWR MAX	Voltage Sensitivity (K-factor) (mV/mW) TYP	Flatness MAX	Video Capacitance (pF)
RNZD01-2S	0.01 to 2 GHz	4.5:1	1200	±0.50dB	470
RNZD01-4S	0.01 to 4 GHz	3.5:1	1200	±0.80dB	470
RNZD01-12S	0.01 to 12.4 GHz	3.5:1	1000	±1.00dB	470
RNZD01-18S	0.01 to 18.5 GHz	4.5:1	1000	±1.00dB	470
RNZD01-26S	0.01 to 26 GHz	4.5:1	500	±1.50dB	470
RNZD02-4S	2 to 4 GHz	3.5:1	1200	±0.50dB	20
RNZD02-8S	2 to 8 GHz	3.5:1	1000	±0.50dB	20
RNZD02-18S	2 to 18 GHz	4.5:1	1000	±1.00dB	20
RNZD06-18S	6 to 18 GHz	4.5:1	1000	±1.00dB	10
RNZD08-18S	8 to 18 GHz	4.5:1	1000	±1.00dB	10

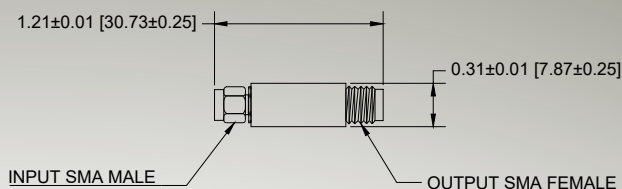
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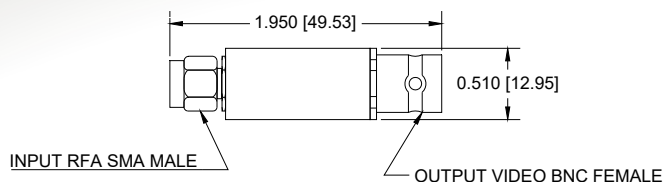
PACKAGE #1



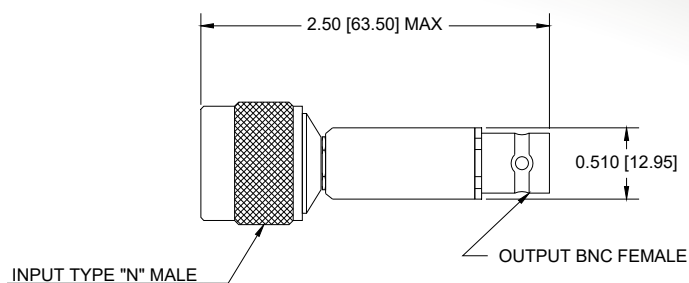
PACKAGE #2



PACKAGE #3



PACKAGE #4



Ordering Information:

Example: **RNZD** **01** = **18** **S** **N** **2** **F****

Series Number

Min Frequency

See Tables for Available Values*

Max Frequency

*12.4 GHz = 12
26.5 GHz = 26

S: High Sensitivity
(No Indicator for Standard)

Polarity
N: Negative
P: Positive

Package Style:

- 1: N (M) to SMA (F)
- 2: SMA (M) to SMA (F)
- 3: SMA (M) to BNC (F)
- 4: N (M) to BNC (F)

****Gender I/O:**

F: Female Input / Male Output

(No Indicator for Standard Male Input / Female Output)



5410 115th Ave. North · Clearwater, FL 33760
727.530.9555 PH · 727.535.3508 FX
www.res-netmicrowave.com

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