NOISE DIODES
10HZ TO 110GHZ

NOISE DIODE OUTPUT CHARACTERISTICS

MODEL	FREQUENCY	TYPICAL RLV	TYPICAL REVERSE VOLTAGE	REVERSE CURRENT	MIN. OUTPUT (uV/=Hz)	STYLE CODES	ENR
SD10W	10Hz-20kHz	20K	9V	40? A	1.5	G	44.5
SD10WE	10Hz-100kHz	2.2K	9V	40? A	1.5	G	54.1
SD10WEE	10Hz-500kHz	600	9V	40? A	1.5	G	59.7
SD20	100Hz-3MHz	600	9V	0.3mA	0.1	G	36.2
SD20L	100Hz-10MHz	600	9V	0.3mA	0.1	G	36.2
SD20LE	100Hz-25MHz	50	9V	0.3mA	0.05	G	41.0
SD20LEE-1	100Hz-100MHz	50	12V	1.5mA	0.04	H	38.0
SD20LEE-2	100Hz-100MHz	50	9V	1.5mA	0.04	G	38.0
SD20LEE-3	100Hz-100MHz	50	7.5V	1.5mA	0.04	G	38.0
SD25-1	1MHz-500MHz	50	12V	1.0mA	0.03	H	36.5
SD25-2	1MHz-500MHz	50	7.5V	2.0mA	0.03	H	36.5
SD30VU	10MHz-1GHz	50	12V	1-4mA	-	H	30-37
SD30VS	10MHz-4GHz	50	18-23V	4-8mA	-	H	30-37
SD30VX	10MHz-12.4GHz	50	18-23V	8-12mA	-	H	30-37
SDCL	10Hz-110GHz	50	7-11V	35mA	-	C	25-30

NOISE MODULES FOR BITE*

MODEL	FREQUENCY RANGE	ENR (dB)	FLATNESS (dB)	VSWR
NBM-5001	0.2-500 MHz	20	±0.5	1.3:1
NBM-5002	0.2-1000 MHz	20	±1.0	1.5:1
NBM-5003	10-1000 MHz	20	±0.75	1.5:1
NBM-5004	100-2000 MHz	20	±1.0	1.5:1
NBM-5005	500-4000 MHz	20	±1.5	1.5:1
NBM-5006	500-2000 MHz	40	±2.0	1.5:1
NBM-5007	100-2000 MHz	40	±2.0	1.5:1

*All BITE modules require a Supply Voltage of +12 VDC.

DESCRIPTION

Noise diodes are the smallest, most inexpensive and versatile noise products available from Micronetics. They are generally used as the foundation for building larger noise sources and test instruments, or in systems where a basic noise source is required, but space is limited. These diodes all have extremely wide bandwidths, making them ideal for use in a broad, and nearly limitless, range of applications. They are available in chip form as well as surface mount and axial lead packaging.

SPECIFICATIONS

- Operating Temperature: -65 to +125°C
- Storage Temperature: -65 to +150°C
- Temperature Stability: .01 dB/°C
- Peak Factor: 5:1

APPLICATIONS

- Spread spectrum (CDMA) signal simulation
- Built-in self-test for communications receivers
- Digital video tester
- Component tester (amplifiers, filters, switches)