

Keysight RF & Microwave Low Barrier Schottky Diode Detectors

Keysight Technologies, Inc. offers a complete family of high performance Low Barrier Schottky Diode Detectors which cover the 10 MHz to 26.5 GHz frequency range. These general purpose components are widely used for CW and pulsed power detection, leveling of sweepers, and frequency response testing of other microwave components. These detectors do not require a dc bias and can be used with common oscilloscopes, thus their simplicity of operation and excellent broadband performance make them useful measurement accessories.

Superior RF performance

- Excellent broadband flatness
- Low broadband SWR
- High burnout protection
- Environmentally rugged
- Field replaceable diode elements



Keysight 423B



Keysight 8470B



Keysight 8472B



Keysight 8473B



Keysight 8473C

Product specifications

Model	Frequency (GHz)	Frequency response	Maximum SWR	Low level sensitivity (mV/μW)	Max operating input power	Typical short term maximum input power (< 1 minute)	Video impedance	RF bypass capacitance (nom)	Input connector	Output connector
423B	0.01 to 12.4	± 0.3 to 12.4 GHz	1.15 to 4 GHz 1.3 to 12.4 GHz	> 0.5	200 mW	1 W	1.3 kΩ	50 pF	Type-N (m)	BNC (f)
8470B	0.01 to 18	± 0.3 to 12.4 GHz ± 0.5 to 15 GHz ± 0.6 to 18 GHz	1.15 to 4 GHz 1.3 to 15 GHz 1.7 to 18 GHz	> 0.5	200 mW	1 W	1.3 kΩ	50 pF	APC-7 (m)	BNC (f)
8472B	0.01 to 18	± 0.3 to 12.4 GHz ± 0.5 to 15 GHz ± 0.6 to 18 GHz	1.2 to 4.5 GHz 1.35 to 7 GHz 1.5 to 12.4 GHz 1.7 to 18 GHz	> 0.5	200 mW	1 W	1.3 kΩ	50 pF	SMA (m)	BNC (f)
8473B	0.01 to 18	± 0.3 to 12.4 GHz ± 0.6 to 18 GHz	1.2 to 4 GHz 1.5 to 18 GHz	> 0.5	200 mW	1 W	1.3 kΩ	30 pF	3.5 mm (m)	BNC (f)
33330B	0.01 to 18	± 0.3 to 12.4 GHz ± 0.6 to 18 GHz	1.2 to 4 GHz 1.5 to 18 GHz	> 0.5	200 mW	1 W	1.3 kΩ	30 pF	3.5 mm (m)	SMC (m)
8473C	0.01 to 26.5	± 0.3 to 12.4 GHz ± 0.6 to 20 GHz ± 1.5 to 26.5 GHz ¹	1.2 to 40 GHz 1.5 to 18 GHz 2.2 to 26.5 GHz	> 0.5 to 18 GHz > 0.18 to 26.5 GHz	200 mW	1 W	1.3 kΩ	30 pF	3.5 mm (m)	BNC (f)
33330C	0.01 to 26.5	± 0.3 to 12.4 GHz ± 0.6 to 20 GHz ± 1.5 to 26.5 GHz	1.2 to 40 GHz 1.5 to 18 GHz 2.2 to 26.5 GHz	> 0.5 to 18 GHz > 0.18 to 26.5 GHz	200 mW	1 W	1.3 kΩ	30 pF	3.5 mm (m)	SMC (m)

1. From a -3.3 dB linear slope beginning at 20 GHz.

Ordering examples

Model	Option type	Option description
33330B/	001	Matched response
33330C	003	Positive polarity
	001	Matched response
	002	Optimum square law load
423B/	003	Positive output polarity
8470B/	100	OSSM output connector ¹
8472B/	101	SAM connector ¹
8473B/	301	Negative polarity ¹
8473C	401	No matched response ¹
	C21	Sealed to resist moisture and test data provided ²

1. Only for 8472B.

2. Only for 8473B.

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