Agilent RF & Microwave Low Barrier Schottky Diode Detectors

Agilent 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.





Low Barrier Schottky Diode Detectors

Superior RF Performance

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



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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	> 0.E	200 mW	1 W	1.21.0	E0 -F	T N. ()	DNIC (4)
			1.3 to 12.4 GHz	> 0.5	200 mvv	I VV	1.3 kΩ	50 pF	Type-N (m)	BNC (f)
8470B	0.01 to 18	± 0.3 to 12.4 GHz	1.15 to 4 GHz							
		$\pm~0.5$ to 15 GHz	1.3 to 15 GHz	> 0.5	200 mW	1 W	1.3 kΩ	50 pF	APC-7 (m)	BNC (f)
		$\pm~0.6$ to 18 GHz	1.7 to 18 GHz							
8472B	0.01 to 18	± 0.3 to 12.4 GHz	1.2 to 4.5 GHz							
		$\pm~0.5$ to 15 GHz	1.35 to 7 GHz	> 0.5 200	200 mW	1 W	1.3 kΩ	50 pF	SMA (m)	BNC (f)
		$\pm~0.6$ to 18 GHz	1.5 to 12.4 GHz		200 11100					
			1.7 to 18 GHz							
8473B	0.01 to 18	± 0.3 to 12.4 GHz	1.2 to 4 GHz	> 0.5	200 mW	1 W	1.3 kΩ	30 pF	2 F ()	BNC (f)
		$\pm~0.6$ to 18 GHz	1.5 to 18 GHz	> 0.5	200 11100	I VV	1.3 KL2	30 pr	3.5 mm (m)	BINC (I)
33330B	0.01 to 18	± 0.3 to 12.4 GHz	1.2 to 4 GHz	> 0.5	200 mW	1 W	1.3 kΩ	30 pF	3.5 mm (m)	SMC (m)
		$\pm~0.6$ to 18 GHz	1.5 to 18 GHz							
8473C	0.01 to 26.5	± 0.3 to 12.4 GHz	1.2 to 40 GHz	> 0.5 to 18 GHz						
		± 0.6 to 20 GHz	1.5 to 18 GHz	> 0.18 to 26.5 GHz	200 mW	1 W	1.3 kΩ	30 pF	3.5 mm (m)	BNC (f)
		\pm 1.5 to 26.5 GHz $^{\rm 1}$	2.2 to 26.5 GHz							
33330C	0.01 to 26.5	± 0.3 to 12.4 GHz	1.2 to 40 GHz	> 0.5 to 18 GHz						
		± 0.6 to 20 GHz	1.5 to 18 GHz	> 0.18 to 26.5 GHz	200 mW	1 W	1.3 kΩ	30 pF	3.5 mm (m)	SMC (m)
		± 1.5 to 26.5 GHz	2.2 to 26.5 GHz							

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

2. Only for 8473B

For more information on Agilent Detectors, please visit www.agilent.com/find/detectors Download or order from www.agilent.com/find/mta

To find a distributor in your area, go to www.agilent.com/find/distributors

Recommended service options

Additional two years of Return-to-Agilent warranty Additional two years of Return-to-Agilent calibrations For more information, go to www.agilent.com/find/removealIdoubt



