Quick Fact Sheet

Agilent RF & Microwave Planar Doped Barrier Diode Detectors

Agilent Planar-Doped Barrier (PDB) detectors, combines the best characteristics of point-contact and low barrier Schottky to provide performance never before achievable. This new PDB diode technology provides detectors with broadband-flatness, excellent square-law response, and low SWR.

Agilent 8471D/E

Agilent 8473D

Agilent 8474B/C/E

Superior RF performance

- Exceptional flatness
- Broadband from 0.01 to 50 GHz
- Extremely temperature stable
- Environmentally rugged

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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
8471D	0.01 to 2	± 0.2 to 1 GHz	1.23 to 1 GHz	> 0.5	100 mW	0.7 W	1.5 kΩ	6800 pF	BNC (m)	BNC (f)
		± 0.4 to 2 GHz	1.46 to 2 GHz							
8471E	0.01 to 12	± 0.23 to 4 GHz	1.2 to 4 GHz	> 0.4	200 mW	0.75 W	1.5 kΩ	30 pF	SMA (m)	SMC (m)
		± 0.6 to 8 GHz	1.7 to 8 GHz							
		± 0.85 to 12 GHz	2.4 to 12 GHz							
8473D	0.01 to 33	± 0.25 to 14 GHz	1.2 to 14 GHz	> 0.4	200 mW	1 W	1.5 kΩ	30 pF	3.5 mm (m)	BNC (f)
		± 0.4 to 26.5 GHz	1.4 to 26.5 GHz							
		± 1.25 to 33 GHz	2.0 to 33 GHz							
		± 2.0 dB to 40 GHz	3.0 typical to 40 GHz							
8474B	0.01 to 18	± 0.35 to 18 GHz	1.3 to 18 GHz	> 0.4	200 mW	0.75 W	1.5 kΩ	27 pF	Type-N (m)	BNC (f)
8474C	0.01 to 33	± 0.4 to 26.5 GHz	1.4 to 26.5 GHz	> 0.4	200 mW	0.75 W	1.5 kΩ	27 pF	3.5 mm (m)	SMC (m)
		± 0.7 to 33 GHz	2.2 to 33 GHz	> 0.34 to 50 GHz						
8474E	0.01 to 50	± 0.3 to 26.5 GHz	1.2 to 26.5 GHz	> 0.4 to 40 GHz	200 mW	0.75 W	1.5 kΩ	27 pF	2.4 mm (m)	SMC (m)
		± 0.6 to 40 GHz	1.6 to 40 GHz							
		± 1.0 to 50 GHz	2.8 to 50 GHz							

Ordering examples

Model	Option type	Option description
8471D	102	Square law load
	103	Positive polarity
8471E	004	4 GHz operation
	103	Positive polarity
8473D	003	Positive output
8474B	002	0.01 to 2 GHz octave only
	004	2 to 4 GHz octave only
	008	4 to 8 GHz octave only
	102	Square law load
	103	Positive polarity
8474C	008	4 to 8 GHz octave only
	012	8 to 12.4 GHz octave only
	033	26.5 to 33 GHz octave only
	103	Positive polarity

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/removealldoubt**

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