



ZERO-BIAS SCHOTTKY DIODE DETECTORS

100 KHz - 50 GHz

FEATURES

- No Bias Required
 - Matched Input for Excellent VSWR**
 - Extremely Flat Frequency Response**
 - Very High Sensitivity (DZ Series)
- ** (DZR & DZM Series)



APPLICATIONS

- Radar Equipment
- Transmitter Monitoring
- Power and Signal Monitoring
- Missile Guidance Systems
- Lab Testing

ENVIRONMENTAL RATINGS

Max Input Power..... 200mW CW (DZR & DZM Series)
 100mW (DZ Series)

Temperature Range..... -55°C to +100°C (DZR Series)
 -45°C to +85°C (DZM Series)

Shock..... 50G, 11 msec

Vibration..... 20G, 100 to 2000 Hz

Specifications: (@ +25°C)

MODEL ^{1,2}	FREQUENCY RANGE	MAXIMUM VSWR	MAXIMUM FLATNESS (± dB)	LOW LEVEL SENSITIVITY (mV / μW)	CONNECTOR		SIZE (INCHES)	
					INPUT	OUTPUT	LENGTH	DIA
DZR124AA	10 MHz – 12.4 GHz	1.25:1	0.3	0.5	SMA (M)	SMA (F)	1.05	0.32
DZR124AC					SMA (M)	SMC (M)	1.47	0.32
DZR185AA	10 MHz – 18.5 GHz	1.25:1	0.5	0.5	SMA (M)	SMA (F)	1.05	0.32
DZR185AC					SMA (M)	SMC (M)	1.47	0.32
DZR265AA	10 MHz – 26.5 GHz	1.3:1 (to 18.5 GHz) 2.0:1 (to 26.5 GHz)	0.5 (to 18.5 GHz) 1.0 (to 26.5 GHz)	0.5	SMA (M)	SMA (F)	1.05	0.32
DZR265AC					SMA (M)	SMC (M)	1.47	0.32
DZM020BB	100 KHz - 2.0 GHz	1.3:1	0.1 (per 100 KHz) 0.3 (overall)	0.5	BNC (M)	BNC (F)	2.48	0.68
DZM040AA	100 KHz - 4.0 GHz				SMA (M)	SMA (F)	1.05	0.32
DZM040BB					BNC (M)	BNC (F)	2.48	0.68
DZM124AA	10 MHz – 12.4 GHz	1.2:1 (to 4.5 GHz) 1.3:1 (to 7 GHz) 1.4:1 (to 12.4 GHz)	0.2 (per octave) 0.5 (overall)	0.5	SMA (M)	SMA (F)	1.05	0.32
DZM124AB					SMA (M)	BNC (F)	2.50	0.56
DZM124NB					Type N (M)	BNC (F)	2.46	0.75
DZM185AA	10 MHz – 18.5 GHz	1.2:1 (to 4 GHz) 1.5:1 (to 18.5 GHz)	0.2 (per octave to 8 GHz) 0.3 (for 10 MHz to 8 GHz) 0.5 (overall)	0.5	SMA (M)	SMA (F)	1.05	0.32
DZM185AB					SMA (M)	BNC (F)	2.50	0.56
DZM185AB2					SMA (M)	BNC (F)	1.89	0.39
DZM185AC					SMA (M)	SMC (M)	1.2	0.32
DZM185NB					Type N (M)	BNC (F)	2.46	0.75
DZM1857B					APC-7	BNC (F)	2.59	0.75

Note 1: Negative output polarity standard. Add "P" to end of model number for positive output polarity.
 Note 2: Matched pairs available at extra charge for frequency response within +/- 0.3 dB below 18.5 GHz and +/- 0.5 dB from 18.5 to 26.5 GHz. Add "M" to end of model number.



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MODEL ^{1,2}	FREQUENCY RANGE	MAXIMUM VSWR	MAXIMUM FLATNESS (± dB)	LOW LEVEL SENSITIVITY (mV / μW)	CONNECTOR		SIZE (INCHES)	
					INPUT	OUTPUT	LENGTH	DIA
DZM265AA	10 MHz-26.5 GHz	1.2:1 (to 4 GHz) 1.5:1 (to 18 GHz) 1.8:1 (to 26.5 GHz)	0.2 (per octave to 8 GHz) 0.5 (for 10 MHz to 18 GHz) 1.0 (overall)	0.5	SMA (M)	SMA (F)	1.05	0.32
DZM265AB					SMA (M)	BNC (F)	1.89	0.39
DZM265AC					SMA (M)	SMC (M)	1.2	0.32
DZM2653B					APC3.5 (M)	BNC (F)	1.89	0.39
DZM2653C					APC3.5 (M)	SMC (M)	1.7	0.38
DZR400KA	10 MHz – 40 GHz	1.3:1 (to 18 GHz) 1.8:1 (to 40 GHz)	0.3 (to 18 GHz) 0.6 (to 26 GHz) 1.0 (to 40 GHz)	0.4	K* (M) (2.9mm)	SMA (F)	1.3	0.32
DZR400KB					K* (M) (2.9mm)	BNC (F)	1.89	0.39
DZR400KC					K* (M) (2.9mm)	SMC (M)	1.35	0.32
DZR50024A	10 MHz – 50 GHz	1.3:1 (to 18 GHz) 1.6:1 (to 26 GHz) 1.8:1 (to 40 GHz) 2.1:1 (to 50 GHz)	0.3 (to 18 GHz) 0.6 (to 26 GHz) 1.0 (to 40 GHz)	0.5	2.4mm (M)	SMA (F)	1.32	0.32
DZR50024B					2.4mm (M)	BNC (F)	1.91	0.39
DZR50024C					2.4mm (M)	SMC (M)	1.36	0.32
DZ1018	1 GHz – 18.0 GHz	8.0:1 (Typical)	1.0 (Typical)	1.8	SMA (M)	SMA (F)	1.16	0.32
DZ1026	1 GHz – 26.0 GHz	8.0:1 (Typical)	1.5 (Typical)	1.6	SMA (M)	SMA (F)	1.16	0.32

*K Connector Trademark of Wiltron Co.

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Note 2: Matched pairs available at extra charge for frequency response within +/- 0.3 dB below 18.5 GHz and +/- 0.5 dB from 18.5 to 26.5 GHz. Add "M" to end of model number.

For Package Outlines see Outline Drawings Page