HIGH SENSITIVITY ZERO-BIAS SCHOTTKY DIODE DETECTORS

100 KHz - 26.5 GHz

FEATURES

- No Bias Required
- Matched Input for Excellent VSWR
- 3 dB More Sensitive (1.0 mV / μW) Than Traditional Matched Zero Bias Detectors
- Very Wide Dynamic Range, 10 μV to 5V (For Input Power –50 dBm to +20 dBm)
- Extremely Flat Frequency Response



APPLICATIONS

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

ENVIRONMENTAL RATINGS

Max Input Power……..... 200 mW
Temperature Range…….-55°C to +100°C
Shock……..…….…… 50G, 11 msec
Vibration..…….…….. 20G, 100 to 2000

Specifications: (@ +25°C)

MODEL	FREQUENCY RANGE (GHz)	MAX VSWR	MAXIMUM FLATNESS (± dB)	LOW LEVEL SENSITIVITY (mV / μW)	HIGH LEVEL OUPUT @ +13dBm (V)	CONNECTOR		SIIZE (INCHES)	
						INPUT	OUTPUT	LENGTH	DIA
DHM020BB	100 KHz - 2.0 GHz	1.3:1	0.1 (per 100KHz) 0.3 (overall)	1.0	2	BNC (M))	BNC (F)	2.48	0.68
DHM040BB	100 KHz - 4.0 GHz								
DHM124AA	10 MHz - 12.4 GHz	1.4:1	0.5	1.0	2	SMA (M)	SMA (F)	1.05	0.32
DHM124AB						SMA (M)	BNC (F)	2.50	0.56
DHM124NB						N (M)	BNC (F)	2.46	0.75
DHMA18AB	10 MHz - 18.5 GHz	1.5:1	0.5	1.0	2	SMA (M)	BNC (F)	1.89	0.39
DHM185AB								2.50	0.56
DHM185AC						SMA (M)	SMC (M)	1.20	0.32
DHM185AA	10 MHz - 18.5 GHz	1.4:1	0.5	1.0	2	SMA (M)	SMA (F)	1.05	0.32
DHM185NB						N (M)	BNC (F)	2.46	0.75
DHM1857B						APC-7	BNC (F)	2.59	0.75
DHM265AA	10 MHz - 26.5 GHz	1.5:1 (to 18.5 GHz) 2:1 (to 26.5 GHz)	0.5 (to 18.5 GHz) 1.0 (to 26.5 GHz)	1.0	2	SMA (M)	SMA (F)	1.05	0.32
DHMA26AB							BNC (F)	1.89	0.39
DHM265AC							SMC (M)	1.20	0.32
DHM2653B				1.0	2	APC 3.5 (M)	BNC (F)	1.89	0.39
DHM2653C							SMC (M)	1.70	0.38

Note 1: Negative output polarity standard. Add “P” to end of model number for positive output polarity
Note 2: Matched pairs available at extra change 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

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