

UM-B

5 nW - 25 mW, Radiometer for Ultra-Low Power Measurements



KEY FEATURES

1. **VERY LOW NOISE LEVEL**
Noise levels of a photo detector, but with the large bandwidth of a pyroelectric:
 - Down to 5 nW when using the Analog Power Module (APM)
2. **VERY HIGH RESPONSIVITY**
Up to 20 000 V/W when using the Analog Power Module (APM)
3. **VERY LARGE BANDWIDTH**
From DUV to FIR thanks to pyroelectric technology
4. **SMART INTERFACE**
Containing all the calibration data
5. **NEW** INCLUDES AN ISOLATING TUBE TO BLOCK UNDESIRED NOISE FROM THE ENVIRONMENT.

AVAILABLE MODELS



UM9B-BL
(9 mm-Organic Black)

ACCESSORIES



Stand with Delrin Post
(Model Number: 200428)



Fiber Adaptors & Connectors
(FC, ST or SMA)



APM Analog Power Supply
(Model Number: 201848)



SDC-500 Digital
Optical Chopper

This product cannot be used with DB-15 extension cables

SEE ALSO

TECHNICAL DRAWINGS	96
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MAESTRO	20
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APPLICATION NOTE

SDC-500 DIGITAL OPTICAL CHOPPER [202154](#)

IR WINDOWS [202192](#)

UM-B



*Also traceable to NRC-CNRC

SPECIFICATIONS

	UM9B-BL-L-D0	UM9B-BL-D0
MAX AVERAGE POWER	200 μ W	20 mW (MAESTRO), 25 mW (M-LINK)
EFFECTIVE APERTURE	9 mm \emptyset	
COMPATIBLE MONITORS	APM	Power Monitors
MEASUREMENT CAPABILITY	With APM	With Monitor
Spectral Range *	0.1 - 20 μ m	0.1 - 20 μ m
Maximum Measurable Power	200 μ W	20 mW (MAESTRO), 25 mW (M-LINK)
Noise Equivalent Power (RMS)	5 nW	300 nW
Rise Time (0-100%)	\leq 0.2s	\leq 0.2s
Sensitivity	20 000 V/W	120 V/W
Calibration Uncertainty	\pm 4 % @ 1064 nm	\pm 4 % @ 1064 nm
Chopper Frequency ^a	5 \pm 1 Hz	10 \pm 1 Hz
DAMAGE THRESHOLDS		
Maximum Average Power Density (1064 nm)	50 mW/cm ²	50 mW/cm ²
PHYSICAL CHARACTERISTICS		
Effective Aperture	9 mm \emptyset	
Sensor	Pyroelectric	
Absorber	BL	
Dimensions	38.1 \emptyset X 26.2D mm	
Weight	91 g	
ORDERING INFORMATION	With APM	With Monitor
Product Name	UM9B-BL-L-D0	UM9B-BL-D0
Product Number (without stand)	202241	202024

Specifications are subject to change without notice // Compatible stand : P/N 200428

* For the calibrated spectral range, see the user manual.

a. SDC-500 Digital Optical Chopper sold separately.