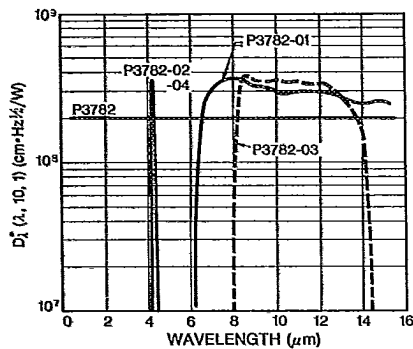


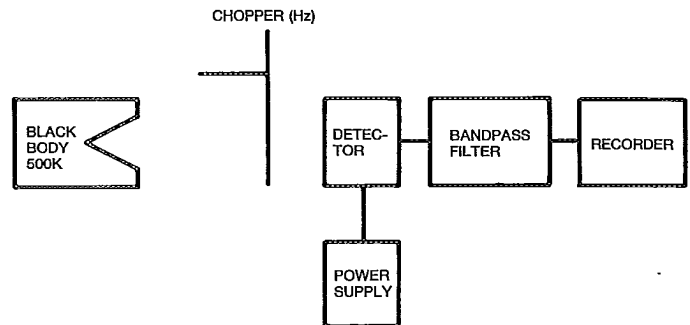
Single Element Type with Temperature compensation P3782 Series

Type No.	Window Material	Sensitive Area (mm)	Spectral Response Range (μm)	Sensitivity Typ.		Noise Max. ($\mu\text{V}/\text{Hz}^{1/2}$)	NEP (500,1,1) Typ. ($\text{W}/\text{Hz}^{1/2}$)	D^* (500,1,1) Typ. ($\text{cm}^2\text{Hz}^{1/2}/\text{W}$)	Rise Time t_r 0~63% Typ. (ms)	Temp. Coefficient of Sensitivity Max. (%/°C)	Supply Voltage (V)	Offset Voltage $R_L=22\text{K}\Omega$ (V)	Temperature	
				1 Hz (V/W)	10Hz (V/W)								Operating (°C)	Storage (°C)
P3782	Si	$\phi 2$	1~15	2000	280	15	1.5×10^{-9}	1×10^8	100	0.2	3~15	0.3~1.5	-20~+60	-30~+85
P3782-01	BF	$\phi 2$	7~15	3000	420	15	1×10^{-9}	2×10^8	100	0.2	3~1.5	0.3~1.5	-20~+60	-30~+85
P3782-02	BF	$\phi 2$	4.3 (FW=80nm)	4200	600	15	5×10^{-10}	3×10^8	100	0.2	3~1.5	0.3~1.5	-20~+60	-30~+85
P3782-03	BF	$\phi 2$	8~14	2600	360	15	1×10^{-9}	2×10^8	100	0.2	3~15	0.3~1.5	-20~+60	-30~+85
P3782-04	BF	$\phi 2$	4.4 (FW=340nm)	4200	600	15	5×10^{-10}	3×10^8	100	0.2	3~15	0.3~1.5	-20~+60	-30~+85

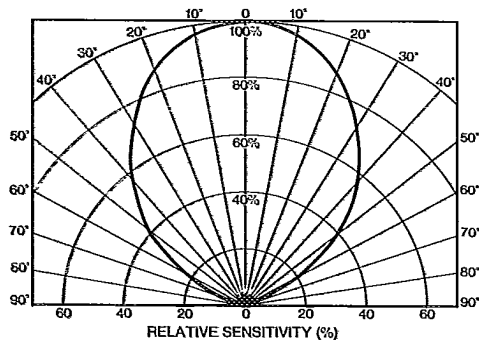
Spectral Response



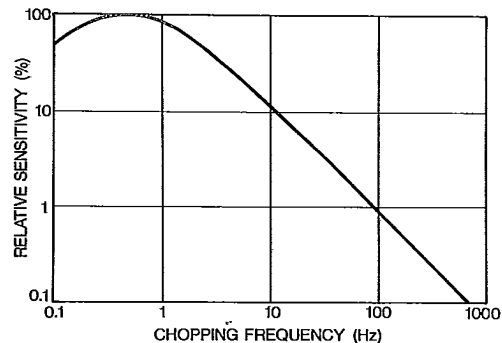
Measurement Block Diagram



Directivity



Sensitivity vs. Chopping Frequency



Unit: mm

P3782 Series

