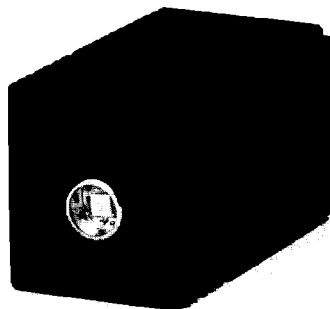


Infrared Detector Modules with Preamplifiers

(Non-cooled Types, TE-cooled Types)

Integral detector/Preamplifier combination assures easy handling and reliable operation

These devices integrate an infrared detector with the compatible preamplifier in a compact case. By simply connecting to a DC power supply, they are easily operable and detect infrared radiation. Both non-cooled types and TE-cooled types are provided for each of the InGaAs, Ge, and PbSe detectors. (PbS and MCT detector are available only in TE-cooled type.) Custom-designed devices are also available for fulfilling your specific needs on request.



■ACCESSORIES (Optional)

Power supply for non-cooled types (± 15 V)	C3871
Power supply for TE-cooled types (± 15 V, +2.5 V)	C3871-01

■SPECIFICATIONS (Common)

Operating Temperature	0 to +40 °C
Storage Temperature	-20 to +50 °C

■ACCESSORIES (Supplied)

DC power supply cable
 4-conductor cable for non-cooled types (for DC power supply)
 : 2 m (connector installed at one end)
 6-conductor cable for TE-cooled types (for DC power supply)
 : 2 m (connector installed at both sides)
 Instruction manual

(Typ.)

Type No.	Detector Element	Active Area (mm)	Element Temperature (°C)	Peak Wavelength λ_p (μm)	Cutoff Wavelength λ_c (μm)	Photo Sensitivity S $\lambda = \lambda_p$ (V/W)	NEP (W/Hz ^{1/2})	Frequency Response (Hz)	Output Impedance (Ω)	Input Voltage (V)	Maximum Current Consumption (mA)	Maximum Output Voltage (V) R _L =1 kΩ
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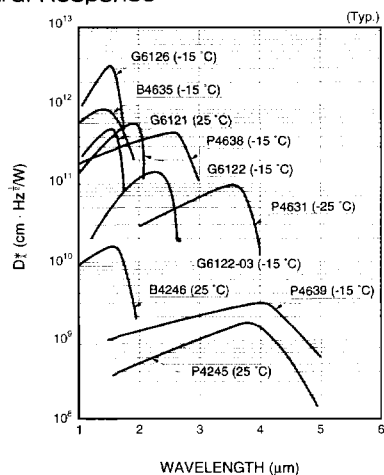
■Non-cooled Types

G6121	InGaAs	φ5	25	1.55	1.7	1×10^6	5×10^{-13}	0 to 8000	50	±15	±15	+10
B4246	Ge	φ5	25	1.55	1.9	4×10^5	3×10^{-11}	0 to 10000	50	±15	±15	+10
P4245	PbSe	3 × 3	25	3.8	4.8	5×10^4	2×10^{-10}	0.2 to 10000	50	±15	±15	±10

■TE-cooled Types

G6122	InGaAs	φ1	-15	1.95	2.05	1.7×10^8	1×10^{-13}	0 to 2200	50	±15, +2.5	+60, -30, +1100	+10
G6122-03	InGaAs	φ1	-15	2.3	2.56	1.5×10^8	6×10^{-13}	0 to 3000	50	±15, +2.5	+60, -30, +1100	+10
G6126	InGaAs	φ5	-15	1.55	1.66	5×10^7	7×10^{-14}	0 to 1200	50	±15, +2.5	+50, -30, +1100	+10
B4635	Ge	φ5	-15	1.52	1.9	5×10^6	3×10^{-13}	0 to 1300	50	±15, +2.5	+80, -30, +1100	+10
P4638	PbS	4 × 5	-15	2.5	3.2	3×10^7	8×10^{-13}	0.2 to 400	50	±15, +2.5	+50, -20, +1100	±10
P4639	PbSe	3 × 3	-15	4.2	5.1	2×10^5	1×10^{-10}	0.2 to 10000	50	±15, +2.5	+50, -20, +1100	±10
P4631	MCT	1 × 1	-25	3.6	3.7	2×10^7	1×10^{-12}	5 to 20000	50	±15, +2.5	+60, -10, +1100	±2.5

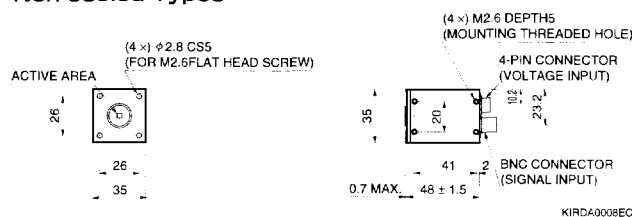
■Spectral Response



KIRDB0075EC

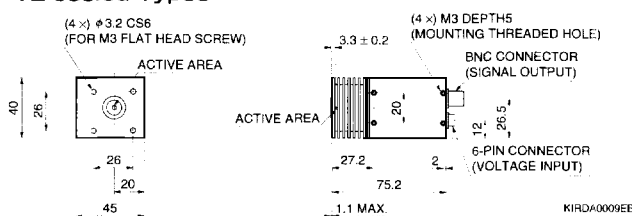
■Dimensional Outlines (Unit: mm)

Non-cooled Types



KIRDA0008EC

TE-cooled Types



KIRDA0009EB