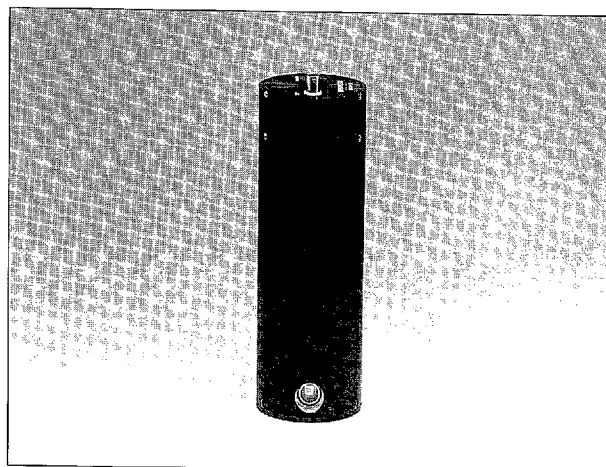


Infrared Detectors with Built-in Preamplifiers (Dewar Types)

Easy-to-use, high performance devices with the ultimate in responsivity

These devices combine a dewar type detector with a matched preamplifier into a metal case. Simply by connecting to a DC power supply, they are easily operable and detect low-level infrared radiation. The Ge, InSb, MCT (liquid nitrogen cooling) and PbS (dry ice cooling) are provided as standard devices. To respond to your specific needs, we also manufacture custom devices with different active areas, FOV and amplifier gains.

* Do not use the detectors horizontally.



● SPECIFICATIONS (Common)

Package	Side-on type glass dewar
Operating Temperature	0 to +40 °C (P3357-02)
	0 to +50 °C (other than P3357-02)
Storage Temperature	-20 to +50 °C
Weight	approx. 1.3 kg

● ACCESSORIES (Optional)

Power supply for preamplifier (± 15 V): C3871

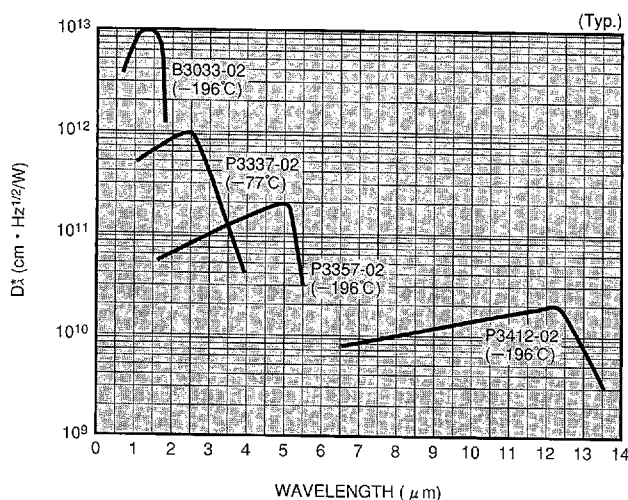
● ACCESSORIES (Supplied)

4-conductor cable (for DC supply)
: 2 m (connector installed at one end)
BNC-BNC coaxial cable (for signal output)
: 2 m, E2573
Instruction manual

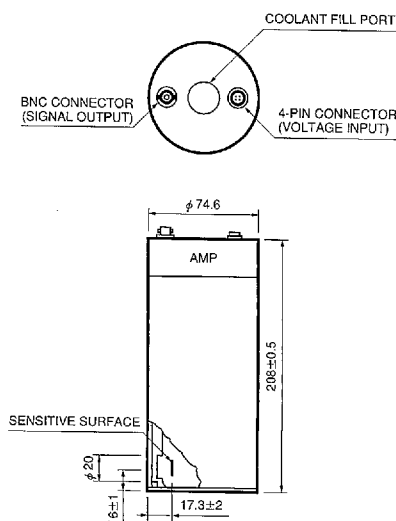
(Typical data, $T_a = 25$ °C)

Type No.	Detector Element	Active Area (mm)	Element Temperature (°C)	Peak Wavelength λ_p (μm)	Cutoff Wavelength λ_c (μm)	Photo Sensitivity S at λ_p (V/W)	NEP (W/Hz ^{1/2})	Frequency Response (Hz)	Output Impedance (Ω)	Input Voltage (V)	Maximum Current Consumption (mA)	Maximum Output Voltage $R_L = 1$ k Ω (V)
B3033-02	Ge	$\phi 5$	-196	1.4	1.6	2×10^8	2×10^{-14}	2 to 400	50	± 12 or ± 15	± 15	± 10
P3337-02	PbS	2×10	-77	2.7	3.6	3×10^8	4×10^{-13}	0.2 to 100	50	± 15	± 15	± 10
P3357-02	InSb	$\phi 0.6$	-196	5.3	5.5	3×10^8	3×10^{-13}	5 to 10000	50	± 12 or ± 15	± 20	± 10
P3412-02	MCT	1×1	-196	12	14	2×10^8	5×10^{-12}	5 to 250000	50	± 15	+60, -10	± 3

● Spectral Response



● Dimensional Outlines (Unit: mm)

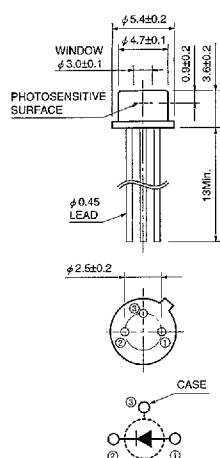


KIRDB0076EA

KIRDA0010EA

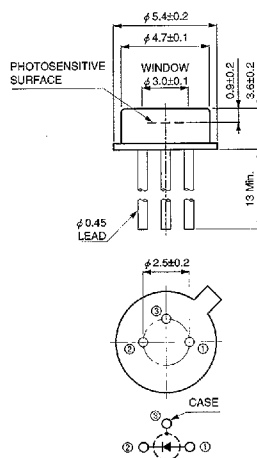
Dimensional Outlines (Unit: mm)

① G3476-01, etc.



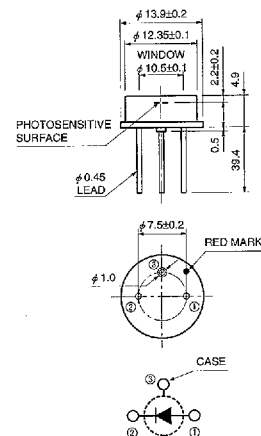
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② G5832-02, -03



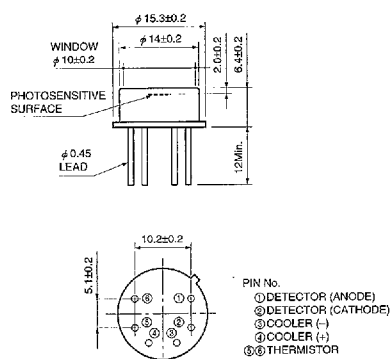
KIRDA0002EB

③ G5832-05, etc.



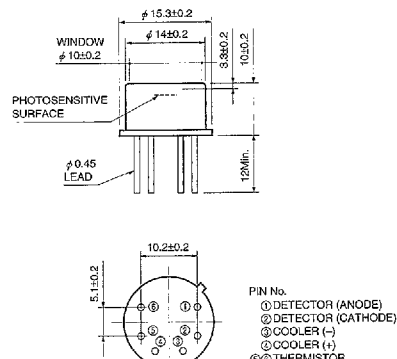
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④ G5832-11, etc.



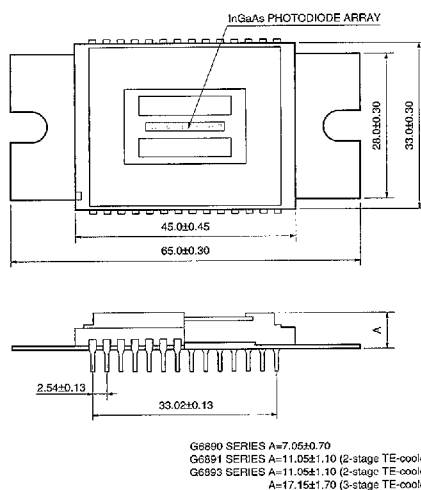
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⑤ G5832-21, etc.



KIRDA0031EB

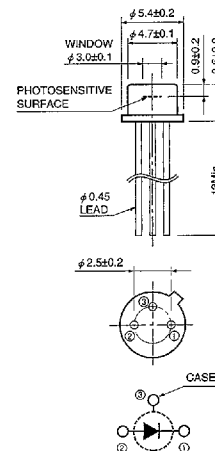
⑥ G6890-128, etc.



G6890 SERIES A=7.06±0.70
G6891 SERIES A=11.05±1.10 (2-stage TE-cooled)
G6893 SERIES A=11.05±1.10 (2-stage TE-cooled)
A=17.15±1.70 (3-stage TE-cooled)

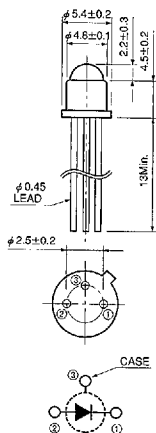
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⑦ B1720-02, etc.



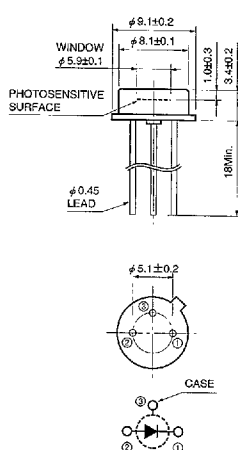
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8 B1720-05



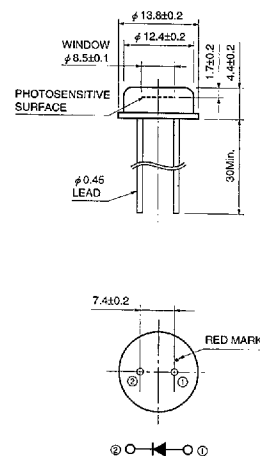
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9 B2144-01, etc.



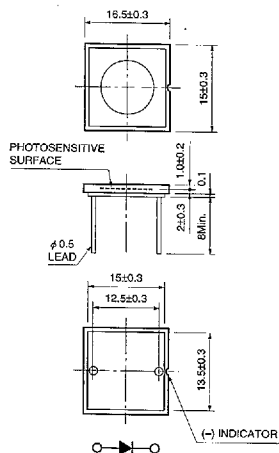
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10 B1919-01



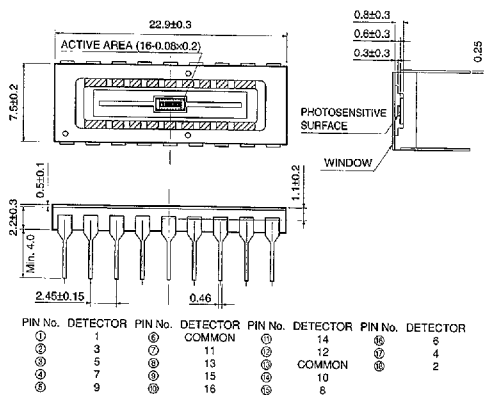
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11 B1920-01



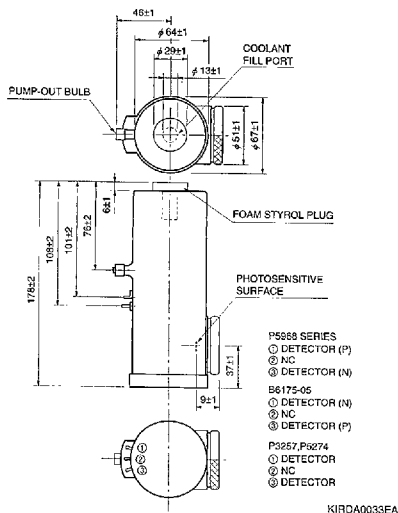
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12 G7151-16



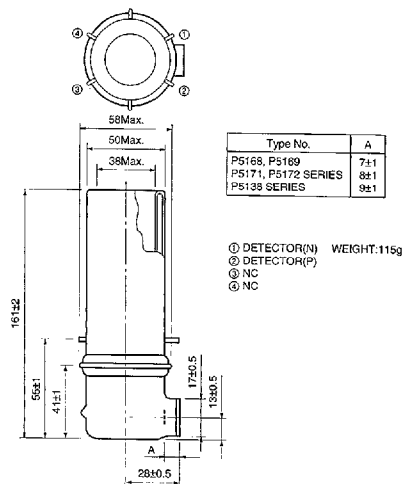
KIRDA0030EB

13 P5968 series, P7163, B6175-05, etc.



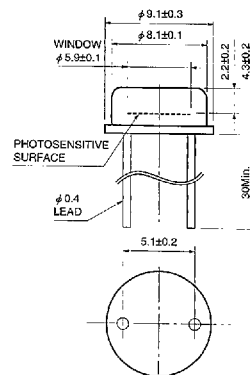
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14 P5138, etc.



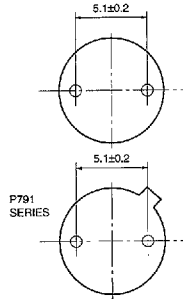
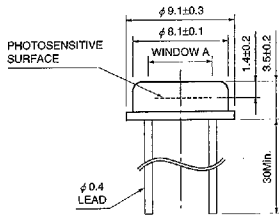
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15 P394



KIRDA0055EA

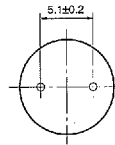
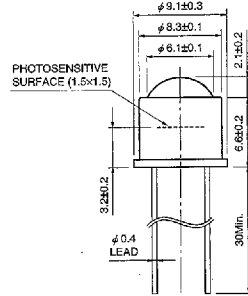
16 P394A, etc.



	P791 SERIES	OTHERS
A	5.5±0.1	5.9±0.1

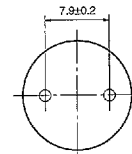
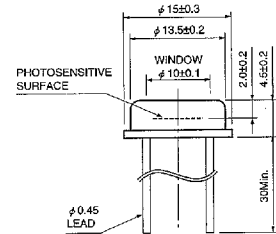
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17 P3226-02



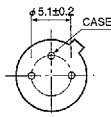
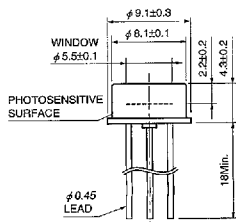
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18 P397



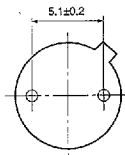
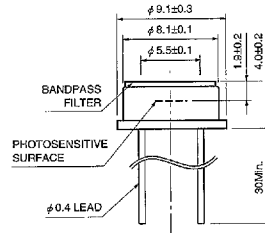
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19 P791-11



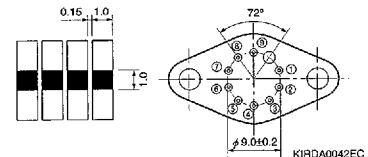
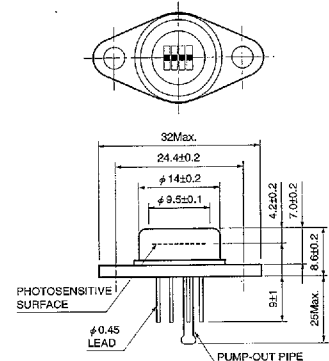
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20 P3207-04



KIRDA0054EA

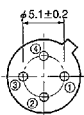
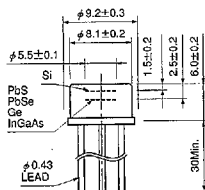
21 P4115



PIN No.
① THERMISTOR
② 1
③ 2
④ 3
⑤ 4
⑥ COMMON
⑦ COOLER (-)
⑧ COOLER (+)

KIRDA0042EC

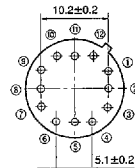
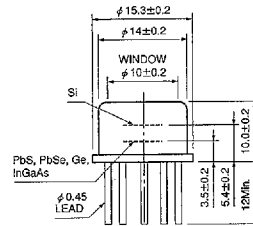
22 K1713-01, etc.



PIN No.
① Si (N)
② Si (P)
③ PbS, PbSe, Ge, InGaAs (N)
④ PbS, PbSe, Ge, InGaAs (P)

KIRDA0041EA

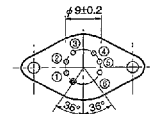
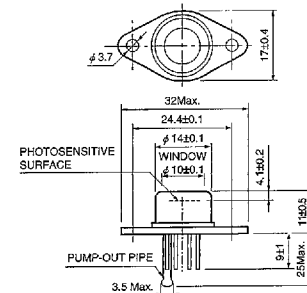
23 K3413-01, etc.



PIN No.
① PbS, PbSe, Ge, InGaAs (P)
② PbS, PbSe, Ge, InGaAs (N)
③ COOLER (-)
④ COOLER (+)
⑤ THERMISTOR
⑥ Si (N)
⑦ Si (P)

KIRDA0043EA

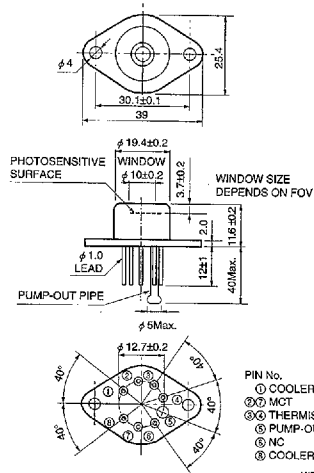
24 P3981-01, etc.



PIN No.
① THERMISTOR
② THERMISTOR
③ DETECTOR
④ DETECTOR
⑤ COOLER (-)
⑥ COOLER (+)

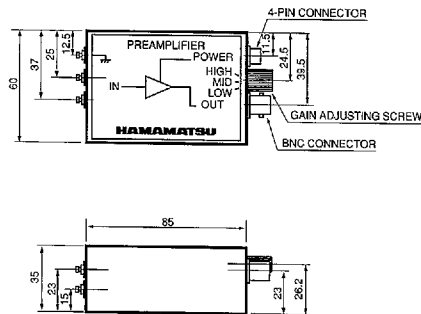
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25 P2750, etc.



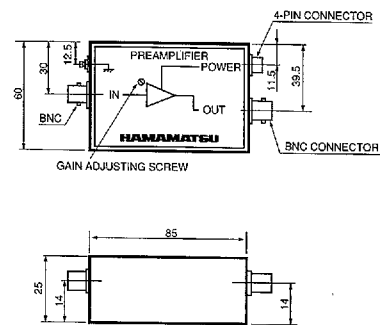
KIRDA0045EB

26 C4159, -01, -03



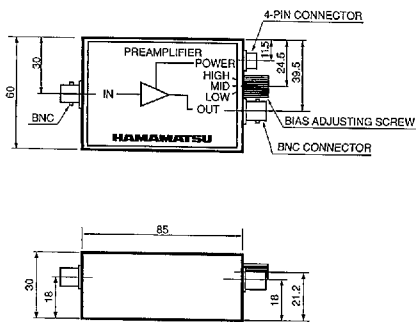
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27 C4159-02



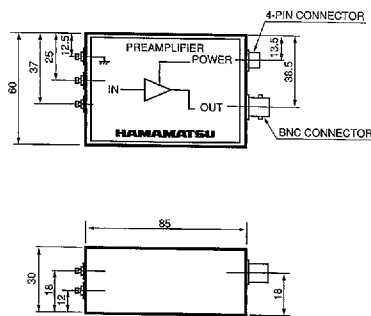
KIRDA0047EA

28 C5185, -01



KIRDA0048EB

29 C3757-02



KIRDA0049EA