

Two-color detectors, each with a different spectral response, mounted in a sandwich style configuration. This geometry has its top photodetector with normal operating characteristics. However, it also acts as a long wavepass spectral filter over the bottom detector.



Part number	Material	Active Area	Operating Wavelength (nm)	Shunt Resistance (Ω)	Shunt Capacitance (pF), typ	Responsivity (A/W)	NEP (W/Hz ^{1/2})
S/S-025	Silicon	2.9mm dia.	300-1000	200M min, 500M typ	600	0.5	$< 1 \times 10^{-14}$
	Silicon	2.5mm dia.	1000-1100	2G min, 5G typ	500	0.1	$< 1 \times 10^{-14}$
IGA/IGA-020	InGaAs	2mm dia.	900-1700	10M min	500	0.9	$< 5 \times 10^{-14}$
	InGaAs	2mm dia.	1700	10M min	500	0.05	$< 1 \times 10^{-12}$
UVS/IGA-025/020	UV Silicon	2.5mm dia.	200-1000	200M min	300	0.6	$< 1.5 \times 10^{-14}$
	InGaAs	2mm dia.	1000-1700	10M min	400	0.6	$< 1 \times 10^{-13}$
S/IGA-050/030	Silicon	5mm dia.	300-1000	200M	1500	0.5	$< 1.5 \times 10^{-14}$
	InGaAs	3mm dia.	1000-1700	5M	1000	0.6	$< 1.5 \times 10^{-13}$
UVS/IGA-050/030	UV Silicon	5mm dia.	200-1000	50M	1000	0.5	$< 3 \times 10^{-14}$
	InGaAs	3mm dia.	1000-1700	5M	1000	0.6	$< 1.5 \times 10^{-13}$
S/IGA2.2-025/010	Silicon	2.5mm dia.	300-1000	500M min	400	0.55	$< 1 \times 10^{-14}$
	ex-InGaAs	1mm dia.	1200-2600	$> 3k$	300	0.5	$< 1 \times 10^{-11}$
UVS/IGA2.2-025/010	UV Silicon	2.5mm dia.	200-1000	200M min	300	0.5	$< 1.5 \times 10^{-14}$
	ex-InGaAs	1mm dia.	1200-2600	$> 3k$	300	0.5	$< 1 \times 10^{-11}$
UVS/IGA2.2-025/010-TE2	UV Silicon	2.5mm dia.	200-1000	$> 10^9$	290	0.5	-
	ex-InGaAs	1mm dia.	1200-2400	100k	290	0.6 min	-
S/G-025/020	Silicon	2.5mm dia.	300-1000	500M min	400	0.55	$< 1 \times 10^{-14}$
	Germanium	2mm dia.	1000-1700	90 k min	9000	0.6	$< 7 \times 10^{-13}$
UVS/G-025/020	UV Silicon	2.5mm dia.	200-1000	200M min	300	0.5	$< 1.5 \times 10^{-14}$
	Germanium	2mm dia.	1000-1700	90 k min	9000	0.6	$< 7 \times 10^{-13}$
S/G-050	Silicon	5mm dia.	300-1000	200M	1500	0.5	$< 1.5 \times 10^{-14}$
	Germanium	5mm dia.	1000-1800	15k	30000	0.6	$< 2.5 \times 10^{-12}$
UVS/G-050	UV Silicon	5mm dia.	200-1000	50M	1000	0.5	$< 3 \times 10^{-14}$
	Germanium	5mm dia.	1000-1800	15k	30000	0.6	$< 2.5 \times 10^{-12}$
S/IA-025/020	Silicon	2.5mm dia.	300-1000	500M min	400	0.55	$< 1 \times 10^{-14}$
	InAs	2mm dia.	1000-3400	> 10	1200	0.5	$< 1 \times 10^{-10}$
UVS/IA-025/020	UV Silicon	2.5mm dia.	200-1000	200M min	300	0.5	$< 1.5 \times 10^{-14}$
	InAs	2mm dia.	1000-3400	> 10	1200	0.5	$< 1 \times 10^{-10}$
S/PBS-025/020	Silicon	2.5mm dia.	300-1000	500M min	400	0.55	$< 1 \times 10^{-14}$
	PBS	2mm sq	1000-2800	0.5 - 2.0 M	-	10^5 V/W	$< 4 \times 10^{-12}$
S/PBS-025/020-TE2	Silicon	2.5mm dia.	300 - 1000	$> 10^9$	290	0.5	-
	PBS	2mm sq	2800	3M	-	3×10^5 V/W	-
UVS/PBS-025/020	UV Silicon	2.5mm dia.	200-1000	200M min	300	0.5	$< 1.5 \times 10^{-14}$
	PBS	2mm sq	1000-2800	0.5 - 2.0 M	-	10^5 V/W	$< 4 \times 10^{-12}$
UVS/PBS-025/020-TE2	UV Silicon	2.5mm dia.	200-1000	$> 10^9$	290	0.5	-
	PBS	2mm sq	2800	3M	-	3×10^5 V/W	-

Note : TE cooled : Thermistor Resistance : 40K Ω
Cooler Current : 0.6A (UVS/IGA2.2-025/010-TE2 : 0A)
Maximum Cooler Current : 1.25A

Part number	Material	Active Area	Operating Wavelength (nm)	Shunt Resistance (Ω)	Shunt Capacitance (pF), typ	Responsivity (A/W)	NEP (W/Hz ^{1/2})
S/PBS-050	Silicon	5mm dia.	300-1000	200M	1500	0.55	$<1.5 \times 10^{-14}$
	PBS	5mm sq	1000-2800	0.2 - 1.0M	-	2.0×10^4 V/W	$< 1.5 \times 10^{-11}$
S/PBS-050-TE2	Silicon	5mm dia.	300 - 1000	$> 10^9$	1400	0.5	-
	PBS	5mm sq	2800	3M	-	1×10^5 V/W	-
UVS/PBS-050	UV Silicon	5mm dia.	200-1000	50 M	1000	0.55	$<3 \times 10^{-14}$
	PBS	5mm sq	1000-2800	0.2 - 1.0M	-	2.0×10^4 V/W	$< 1.5 \times 10^{-11}$
UVS/PBS-050-TE2	UV Silicon	5mm dia.	200-1000	$> 10^9$	1200	0.5	-
	PBS	5mm sq	2800	3M	-	1×10^5 V/W	-
S/PBSE-025/020	Silicon	2.5mm dia.	300-1000	500M min	400	0.55	$<1 \times 10^{-14}$
	PbSe	2mm sq	1000-4500	0.3 - 1.0 M	-	> 2000 V/W	$< 7 \times 10^{-11}$
UVS/PBSE-025/020	UV Silicon	2.5mm dia.	200-1000	200 M min	300	0.5	$<1.5 \times 10^{-14}$
	PbSe	2mm sq	1000-4500	0.3 - 1.0 M	-	> 2000 V/W	$< 7 \times 10^{-11}$
S/PBSE-050	Silicon	5mm dia.	300-1000	200M	1500	0.55	$<1.5 \times 10^{-14}$
	PbSe	5mm sq	1000-4500	0.2 - 1.0M	-	> 500 V/W	$< 5 \times 10^{-10}$
UVS/PBSE-050	UV Silicon	5mm dia.	200-1000	50M	1000	0.55	$<3 \times 10^{-14}$
	PbSe	5mm sq	1000-4500	0.2 - 1.0M	-	> 500 V/W	$< 5 \times 10^{-10}$

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