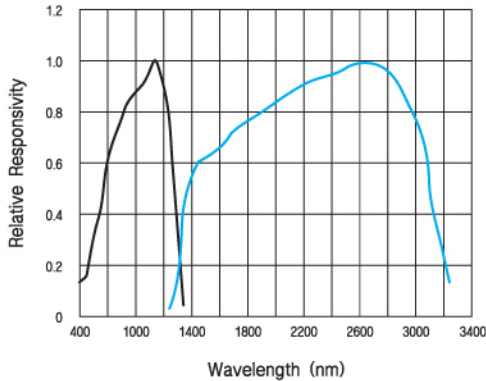
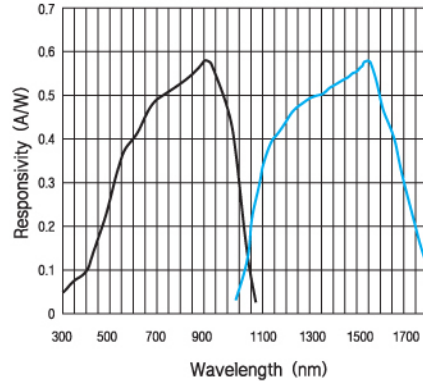


## 2 Color H-series Receivers

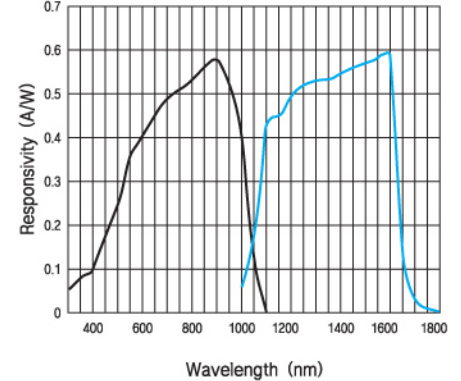
**S/PBS 2-COLOR PHOTODETECTOR**  
Typical Spectral Response - 22°C



**S/G 2-COLOR PHOTODETECTOR**  
Typical Spectral Response - 22°C



**S/IGA 2-COLOR PHOTODETECTOR**  
Typical Spectral Response - 22°C



| Part Number            | Material  | Active Area | Operating Wavelength | Responsivity (V/W)                       | Noise (V/Hz <sup>1/2</sup> )               | NEP (W/Hz <sup>1/2</sup> ) | Bandwidth (-3dB)-Hz |
|------------------------|-----------|-------------|----------------------|--|--|----------------------------|---------------------|
| S/G-025/020-H          | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>8</sup> /0.6x10 <sup>7</sup> | 1.2x10 <sup>-6</sup> /1.2x10 <sup>-7</sup> | 2x10 <sup>-14</sup>        | DC-2K               |
|                        | Germanium | 2mm dia.    | 1000-1800nm          | 0.6x10 <sup>7</sup> /0.6x10 <sup>6</sup> | 4x10 <sup>-6</sup> /4x10 <sup>-7</sup>     | 7x10 <sup>-13</sup>        | DC-2K               |
| S/G-025/020-TE2-H      | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>9</sup> /1x10 <sup>8</sup>   | 3.6x10 <sup>-6</sup> /1x10 <sup>-7</sup>   | 6x10 <sup>-15</sup>        | DC-2K               |
|                        | Germanium | 2mm dia.    | 300-1700nm           | 0.6x10 <sup>7</sup> /1x10 <sup>6</sup>   | 6x10 <sup>-7</sup> /1x10 <sup>-8</sup>     | 1x10 <sup>-13</sup>        | DC-2K               |
| S/IGA-025/020-H        | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>8</sup> /0.6x10 <sup>7</sup> | 1.2x10 <sup>-6</sup> /1.5x10 <sup>-7</sup> | <2x10 <sup>-14</sup>       | DC-2K               |
|                        | InGaAs    | 2mm dia.    | 1000-1700nm          | 0.6x10 <sup>8</sup> /0.6x10 <sup>7</sup> | 1.2x10 <sup>-6</sup> /1.5x10 <sup>-7</sup> | <2x10 <sup>-14</sup>       | DC-2K               |
| S/IGA-025/020-TE2-H    | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>9</sup> /1x10 <sup>8</sup>   | 3.6x10 <sup>-6</sup> /1x10 <sup>-7</sup>   | <6x10 <sup>-15</sup>       | DC-2K               |
|                        | InGaAs    | 2mm dia.    | 1000-1600nm          | 0.6x10 <sup>8</sup> /1x10 <sup>7</sup>   | 1.2x10 <sup>-6</sup> /1x10 <sup>-7</sup>   | <2x10 <sup>-14</sup>       | DC-2K               |
| S/IGA-050/030-H        | Silicon   | 5mm dia.    | 300-1000nm           | 0.6x10 <sup>8</sup> /1x10 <sup>7</sup>   | 1.2x10 <sup>-6</sup> /4x10 <sup>-7</sup>   | <2x10 <sup>-14</sup>       | DC-2K               |
|                        | InGaAs    | 3mm dia.    | 1000-1700nm          | 0.6x10 <sup>8</sup> /1x10 <sup>7</sup>   | 4x10 <sup>-6</sup> /3x10 <sup>-7</sup>     | <7x10 <sup>-14</sup>       | DC-2K               |
| S/IGA-050/030-TE2-H    | Silicon   | 5mm dia.    | 300-1000nm           | 0.6x10 <sup>9</sup> /1x10 <sup>8</sup>   | 3.6x10 <sup>-6</sup> /1x10 <sup>-7</sup>   | <6x10 <sup>-15</sup>       | DC-2K               |
|                        | InGaAs    | 3mm dia.    | 1000-1600nm          | 0.6x10 <sup>8</sup> /1x10 <sup>7</sup>   | 1.2x10 <sup>-6</sup> /1x10 <sup>-7</sup>   | <2x10 <sup>-14</sup>       | DC-2K               |
| S/IGA2.2-025/010-H     | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>8</sup> /1x10 <sup>7</sup>   | 1.2x10 <sup>-6</sup> /1x10 <sup>-7</sup>   | <2x10 <sup>-14</sup>       | DC-2K               |
|                        | ex-InGaAs | 1mm dia.    | 1200-2600nm          | 0.6x10 <sup>6</sup> /1x10 <sup>5</sup>   | 1.2x10 <sup>-6</sup> /1x10 <sup>-7</sup>   | <2x10 <sup>-12</sup>       | DC-2K               |
| S/IGA2.2-025/010-TE2-H | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>9</sup> /1x10 <sup>8</sup>   | 3.6x10 <sup>-6</sup> /1x10 <sup>-7</sup>   | 6x10 <sup>-15</sup>        | DC-2K               |
|                        | ex-InGaAs | 1mm dia.    | 1200-2400nm          | 0.6x10 <sup>7</sup> /1x10 <sup>6</sup>   | 2.4x10 <sup>-6</sup> /1x10 <sup>-7</sup>   | 4x10 <sup>-13</sup>        | DC-2K               |
| S/IA-025/020-H         | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>8</sup> /0.6x10 <sup>7</sup> | 1.2x10 <sup>-6</sup> /1.2x10 <sup>-7</sup> | <2x10 <sup>-14</sup>       | DC-2K               |
|                        | InAs      | 2mm dia.    | 1000-3500nm          | 0.6x10 <sup>4</sup> /0.8x10 <sup>3</sup> | 1.2x10 <sup>-6</sup> /1.6x10 <sup>-7</sup> | <2x10 <sup>-10</sup>       | DC-2K               |
| S/IA-025/020-TE2-H     | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>9</sup> /1x10 <sup>8</sup>   | 3.6x10 <sup>-6</sup> /1x10 <sup>-7</sup>   | 6/10x10 <sup>-15</sup>     | DC-300/2K           |
|                        | InAs      | 2mm dia.    | 1000-3300nm          | 1x10 <sup>4</sup> /1x10 <sup>3</sup>     | 0.2/0.02x10 <sup>-6</sup>                  | 1.5x10 <sup>-11</sup>      | DC-2K               |
| S/PBS-025/020-H        | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>8</sup> /0.6x10 <sup>7</sup> | 1.2x10 <sup>-6</sup> /1.2x10 <sup>-7</sup> | 2x10 <sup>-14</sup>        | DC-2K               |
|                        | PbS       | 2mm sq      | 1000-2600nm          | 5x10 <sup>7</sup> /1x10 <sup>5</sup>     | 15x10 <sup>-6</sup> /1x10 <sup>-7</sup>    | 3x10 <sup>-12</sup>        | 5-500               |
| S/PBS-025/020-TE2-H    | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>9</sup> /1x10 <sup>8</sup>   | 3.6/0.4                                    | 6x10 <sup>-15</sup>        | DC-200/2K           |
|                        | PbS       | 2mm sq      | 1000-2800nm          | 2x10 <sup>7</sup> /1x10 <sup>6</sup>     | 10/1                                       | 1x10 <sup>-12</sup>        | 5-300               |
| S/PBSE-025/020-H       | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>8</sup> /0.6x10 <sup>7</sup> | 1.2x10 <sup>-6</sup> /1.2x10 <sup>-7</sup> | 2x10 <sup>-14</sup>        | DC-2K               |
|                        | PbSe      | 2mm sq      | 1000-4500nm          | 1x10 <sup>5</sup> /1x10 <sup>4</sup>     | 10x10 <sup>-6</sup> /1x10 <sup>-7</sup>    | 1x10 <sup>-10</sup>        | 5-10K               |
| S/PBSE-025/020-TE2-H   | Silicon   | 2.5mm dia.  | 300-1000nm           | 0.6x10 <sup>9</sup> /1x10 <sup>8</sup>   | 3.6/0.4                                    | 6x10 <sup>-15</sup>        | DC-200/2K           |
|                        | PbSe      | 2mm sq      | 1000-4700nm          | 3x10 <sup>5</sup> /1x10 <sup>4</sup>     | 10/1                                       | 3x10 <sup>-11</sup>        | 5-10K               |

Note : Power Requirements : ±9VDC to ±15VDC