1.1.2.6 Medium - High Power Fan Cooled Thermal Sensors

10mW to 150W

Features:
- General purpose and high damage threshold
- Fan cooled
- Powers to 150W
- Ø17.5mm to Ø35mm apertures
- F50A-BB-18 very stable reading and wide dynamic range

<table>
<thead>
<tr>
<th>Model</th>
<th>Use</th>
<th>Absorber Type</th>
<th>Spectral Range µm</th>
<th>Aperture mm</th>
<th>Power Mode</th>
<th>Power Range</th>
<th>Power Scales</th>
<th>Power Noise Level</th>
<th>Maximum Average Power Density kW/cm²</th>
<th>Response Time with Meter (0-95%) typ. s</th>
<th>Power Accuracy ±/-%</th>
<th>Linearity with Power ±/-%</th>
<th>Energy Range</th>
<th>Energy Scales</th>
<th>Maximum Energy Density J/cm²</th>
<th>Minimum Energy mJ</th>
<th>Maximum Energy Density J/cm²</th>
<th>Cooling</th>
<th>Fiber Adapters Available</th>
<th>Weight kg</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>F50A-BB-18</td>
<td>Monitoring stability of power</td>
<td>Broadband</td>
<td>0.19 - 20</td>
<td>Ø17.5mm</td>
<td>Fan</td>
<td>10mW - 50W</td>
<td>50W / 5W / 500mW</td>
<td>0.5mW</td>
<td>17 at 50W 28 at 10W</td>
<td>12 at 50W 17 at 50W</td>
<td>0.8</td>
<td>3</td>
<td>1</td>
<td>6mJ - 50J</td>
<td>60J / 5J / 500mJ</td>
<td>0.3</td>
<td>6</td>
<td>20</td>
<td>fan</td>
<td>ST, FC, SMA, SC</td>
<td>0.35</td>
</tr>
<tr>
<td>F100A-PF-DIF-33</td>
<td>Short pulse lasers</td>
<td>PF-type + diffuser</td>
<td>0.24 - 2.2</td>
<td>Ø30mm</td>
<td>Fan</td>
<td>50W - 100W</td>
<td>100W / 30W / 3W</td>
<td>3mW</td>
<td>2.5</td>
<td>1.5</td>
<td>5</td>
<td>1</td>
<td>20mJ - 100J</td>
<td>200J / 30J / 3J</td>
<td>4</td>
<td>2</td>
<td>5</td>
<td>fan</td>
<td>NA</td>
<td>0.8</td>
<td>CE, China RoHS</td>
</tr>
<tr>
<td>F150A-BB-26</td>
<td></td>
<td>Broadband</td>
<td>0.19 - 20</td>
<td>Ø26mm</td>
<td>Fan</td>
<td>50W - 150W</td>
<td>150W / 30W / 3W</td>
<td>3mW</td>
<td>5.5</td>
<td>1.5</td>
<td>3</td>
<td>1</td>
<td>100J / 30J / 3J / 300mJ</td>
<td>6mJ - 50J</td>
<td>60J / 5J / 500mJ</td>
<td>30</td>
<td>2</td>
<td>10</td>
<td>fan</td>
<td>ST, FC, SMA, SC</td>
<td>0.35</td>
</tr>
</tbody>
</table>

Notes:
(a) Fan should be on for power above 3W. Fan should be off for measuring very low power and for energy measurement.
(b) For shorter wavelengths derate maximum energy density as follows: Wavelength Derate to value:
1064nm not derated
532nm 80% of stated value
355nm 60% of stated value
193nm not derated
266nm 50% of stated value
193nm 0% of stated value
Notes: (c) Calibrated at specified wavelengths only: 266nm, 355nm, 532nm, 1064nm and 2100nm only
Notes: (d) For lower powers up to 30W it is recommended to work with the fan off and then the noise level is ~3 times lower. It is also recommended to measure energy with the fan off.