

1.1.2.6 Medium-High Power Fan Cooled Thermal sensors

10mW to 150W

Features

- Fan cooled
- Powers to 150W
- Ø17.5mm to Ø26mm apertures
- F50A-BB-18 very stable reading and wide dynamic range



| Model | F50A-BB-18 | F150A-BB-26 |
|--|-------------------------------|----------------------------|
| Use | Monitoring stability of power | General purpose |
| Absorber Type | Broadband | Broadband |
| Spectral Range μm | 0.19 - 20 | 0.19 - 20 |
| Aperture mm | Ø17.5mm | Ø26mm |
| Power Mode | | |
| Power Range | 10mW - 50W ^(a) | 50mW - 150W ^(b) |
| Power Scales | 50W / 5W / 500mW | 150W / 30W / 3W |
| Power Noise Level | 0.5mW | 3mW ^(b) |
| Maximum Average Power Density kW/cm ² | 17 at 50W 28 at 10W | 12 at 150W 17 at 50W |
| Response Time with Display (0-95%) typ. s | 0.8 | 1.5 |
| Calibration Uncertainty $\pm\%$ | 1.9 | 1.9 |
| Power Accuracy $\pm\%$ | 3 | 3 |
| Linearity with Power $\pm\%$ | 1 | 1 |
| Energy Mode | | |
| Energy Range | 6mJ - 50J ^(a) | 20mJ - 100J |
| Energy Scales | 50J / 5J / 500mJ | 100J / 30J / 3J / 300mJ |
| Minimum Energy mJ | 6 | 20 ^(b) |
| Maximum Energy Density J/cm ² | | |
| <100ns | 0.3 | 0.3 |
| 0.5ms | 2 | 5 |
| 2ms | 2 | 10 |
| 10ms | 2 | 30 |
| Cooling | fan | fan |
| Fiber Adapters Available (see page 93) | ST, FC, SMA, SC | ST, FC, SMA, SC |
| Weight Kg | 0.35 | 0.35 |
| Compliance | CE, China RoHS | CE, China RoHS |
| Version | | |
| Part Number: Standard Sensor | 7Z02718 | 7Z02727 |
| BeamTrack Sensor: Beam Position & Size (p.55) | | 7Z07901 |

Notes: (a) Fan should be on for power above 3W. Fan should be off for measuring very low power and for energy measurement.

Notes: (b) 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.

