

## 1.1.2.4 Low - Medium Power Thermal Sensors – Apertures to 35mm

### 10mW to 50W

#### Features

- Convection air cooled
- CW to 30W or 50W intermittent to 150W
- Ø17.5mm and Ø35mm apertures

30(150)A-BB-18      L50(150)A-BB-35



Model	30(150)A-BB-18	L50(150)A-BB-35
Use	General purpose	General purpose
Absorber Type	Broadband	Broadband
Spectral Range $\mu\text{m}$	0.19 - 20	0.19 - 20
Absorption	>85%	>85%
Aperture mm	Ø17.5mm	Ø35mm
Power Mode		
Power Range	30mW - 150W	100mW - 150W
Maximum Power Intermittent	150W for 1.5min, 100W for 2.2min, 30W continuous	150W for 1.5min, 100W for 2.5min, 50W continuous
Power Scales	150W / 30W / 3W	150W / 50W / 5W
Power Noise Level	2mW	4mW
Maximum Average Power Density kW/cm <sup>2</sup>	12 at 150W 20 at 30W	12 at 150W 17 at 50W
Response Time with Display (0-95%) typ s	1.2	2
Calibration Uncertainty $\pm\%$	1.9	1.9
Power Accuracy $\pm\%$	3	3
Linearity with Power $\pm\%$	1	1
Energy Mode		
Energy Range	20mJ - 100J	40mJ - 300J
Energy Scales	100J / 30J / 3J	300J / 30J / 3J
Minimum Energy mJ	20	40
Maximum Energy Density J/cm <sup>2</sup>		
<100ns	0.3	0.3
0.5ms	5	5
2ms	10	10
10ms	30	30
>300ms	NA	NA
Cooling	Convection / ballistic	convection / ballistic
Fiber Adapters Available (see page 93)	ST, FC, SMA, SC	ST, FC, SMA, SC
Weight Kg	0.3	0.35
Compliance	CE, UKCA, China RoHS	CE, UKCA, China RoHS
Version		
Part Number	7Z02699	7Z02730

