

Certificate of Calibration

Sensortyp / Model
Seriennummer / Serial
geprüft am / date of calibration

PEM 45 K
A 139
27.12.2002

Kenndaten / Parameters

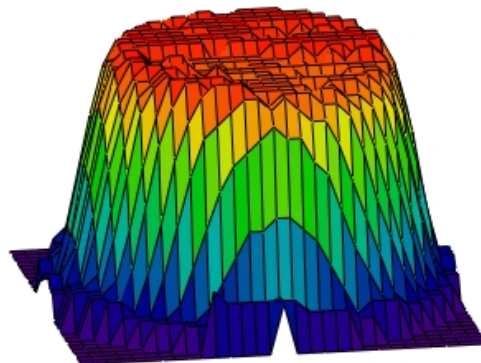
- Empfindlichkeit / Sensitivity 1,6 V/J / 0,3 V/J
- Kalibrierwellenlänge / Calibration wavelength 532 nm
- spektrale Bandbreite/ Spectral range 190nm .. 25 µm
- Kalibriergenauigkeit / Calibration uncertainly 5%
- thermische Zeitkonstante / Thermal time constant 20 ms

Grenzwerte / Limiting values

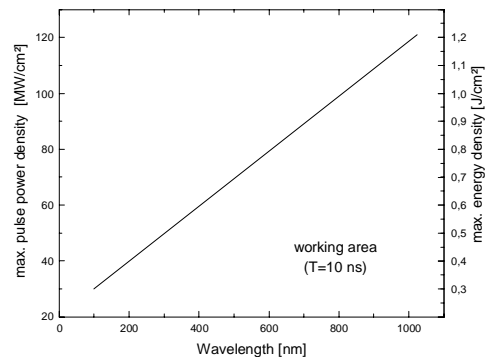
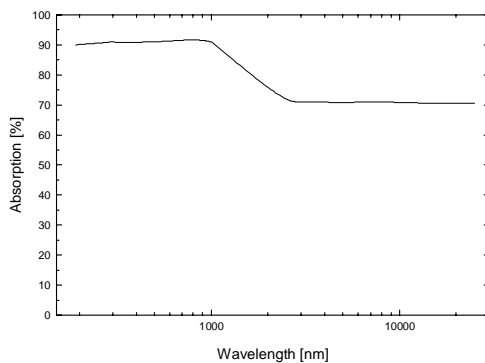
- Energiedichte /Energy density $E[J/cm^2] = 10^{-2} \cdot (5 + 0.03 \cdot \lambda[nm]) \cdot \sqrt{t[ns]}$
- mittlere Leistung / Average power 10 W
- Temperaturbereich / Operating enviroment 0° .. 40°C

Homogenität / Homogeneity

- Meßschrittweite / Step 1.8 mm
- Durchmesser des Teststrahles / Diameter of testbeam 5 mm
- Empfindlichkeitsprofil / Profile of Sensitivity



Homogenitätsprofil



Equipment used for Calibration

Reference Detector: PEM 34, Ser.-No: P34/320, Certificate-No: 41399-PTB-01

Reference Read Out: LEM2020, Ser.-No: 2020-80.1-1100, Certificate-No: 41399-PTB-01

The accuracy and calibration is traceable to the PTB Germany (national institute of science and technology) through equipment which is calibrated at planned intervals by comparison to the certified standards.