



DAZZLER™
WB45-1150-1600
Specifications

WIDE BAND TUNABLE DAZZLER™
PROGRAMMABLE AMPLITUDE AND PHASE FILTER FOR
FEMTOSECOND LASER PULSE SHAPING

- **Ultra-compact device**
 - **45 mm crystal interaction length**
 - **In-line geometry**
 - **Simple optical alignment**
- | | |
|---|--|
| ▸ Wavelength tuning range | 1150 nm to 1600 nm* |
| ▸ Instantaneous bandwidth | up to 450 nm maximum* |
| ▸ Spectral resolution | |
| ▸ @ 1150 nm | 0.6 nm |
| ▸ @ 1300 nm | 0.8 nm |
| ▸ @ 1600 nm | 1.2 nm |
| ▸ Intensity control dynamic range | > 45 dB |
| ▸ Maximum programmable delay | > 6 psec |
| ▸ Efficiency | > 70% over a 100nm bandwidth
> 30% over a 300nm bandwidth |
| ▸ Maximum input power | 100 MW/cm ² |
| ▸ Maximum beam diameter in mm | 2.5 |
| ▸ Dimension of crystal module | 50 x 100 x 20 mm ³ |
| ▸ Typical acoustic waveform refreshing time | |
| ✓Option T1: USB | 1.5 sec |
| ✓Option T2: GPIB | < 40 msec |

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*: These values correspond to the 3dB limits of the wavelength tuning range.

Some operation examples are as follow:

- Center wavelength of 1170nm with an instantaneous bandwidth from 1150 to 1190nm
- Center wavelength of 1200nm with an instantaneous bandwidth from 1150 to 1250nm
- Center wavelength of 1375nm with an instantaneous bandwidth from 1150 to 1600nm
- Center wavelength of 1580nm with an instantaneous bandwidth from 1560 to 1600nm

FASTLITE

tel: +33 1 45 30 12 96
<http://www.fastlite.com>

Fax: +33 1 45 30 12 97
 E-mail: information@fastlite.com

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