

聖王

CNT超高速可飽和吸収体
Ultra fast Saturable Absorber

SAINT CSM-500 Series

SAINTは、カーボンナノチューブを使用した可飽和吸収デバイスです。非常に高速なリカバリータイム、高非線形、高い光学損傷閾値等を特徴とし様々な光学系での活用が可能です。

SAINT is a novel CNT-based saturable absorber device. The device has an ultrafast recovery time, high optical power damage threshold, which are ideal characteristics for various nonlinear optics applications, such as noise suppression and optical switching. It is available in reflection or transmission type, and both are compactly packaged.



Features

- * 高速リカバリータイム
Ultrafast Recovery time (< 1 ps)
- * 高非線形
Highly nonlinear
- * 高い光学損傷閾値
High optical power damage

Applications

- * ASE雑音サプレッション
ASE noise suppression
- * 超高速光スイッチ
Ultrafast optical switching
- * 光信号再生
Optical signal regeneration
- * 非線形応用
Nonlinear optics applications

Specifications

Parameters	Specification
Center Wavelength	S, C, L-band
Absorption (in non-saturation)	0.5-5 dB fixed
Recovery time	< 1 ps (typ. 600 fs)
Mode of operation	Transmission Type
Insertion Loss	< 1.0 dB (without Absorption)
Output Connector	FC/PC or SC/PC
Fiber	SMF, PANDA SMF (only SC/PC connector)
Dimension	30 x 10 x 10 mm
Weight	0.03 kg