

SA data sheet SA-1550-58-2ps-thin-x, $\lambda = 1550$ nm, thin saturable absorber for fiber coupling

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|---|---|
| Laser wavelength | $\lambda = 1400$ nm ... 1600 nm |
| Absorptance | $A_0 = 58$ % |
| Modulation depth | $\Delta T = 35\%$ |
| Non-saturable loss | $A_{ns} = 23$ % |
| Fiber coupling insertion loss | ≤ 1.6 dB |
| Saturation fluence | $\Phi_{sat} = 300$ $\mu\text{J}/\text{cm}^2$ |
| Damage threshold | $\Phi = 1.5$ mJ/cm^2 |
| Relaxation time constant | $\tau \sim 2$ ps |
| Chip area | 1.3 mm x 1.3 mm; other dimensions on request |
| Chip thickness | 150 μm ; semi-insulating GaAs |
| Front side protection | AR coating for 1550 nm |
| Back side coating | the SA back side is polished and antireflection coated for 1550 nm |
| Mounting option x denotes the type of mounting as follows: | |
| x = 1.0b-0 | batch of 5 unmounted chips with area 1.0 mm x 1.0 mm |
| x = 1.3b-0 | batch of 5 unmounted chips with area 1.3 mm x 1.3 mm |
| x = FC | SA chip with 150 μm thickness is mounted inside a 1 m long single mode fiber cable |

