

SA data sheet SA-1340-22-20ps-x, $\lambda = 1340$ nm SA – Saturable Absorber in transmission

Laser wavelength	$\lambda = 1340$ nm
Absorptance	$A_0 = 22$ %
Modulation depth	$\Delta T = 14$ %
Non-saturable loss	$A_{ns} = 8$ %
Saturation fluence	$\Phi_{sat} = 300$ $\mu\text{J}/\text{cm}^2$
Damage threshold	$\Phi = 1.2$ mJ/cm^2
Relaxation time constant	$\tau \sim 20$ ps
Chip area	5.0 mm x 5.0 mm; other dimensions on request
Chip thickness	625 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 = 0	unmounted
x = 12.7 g	glued on a copper heat sink with 12.7 mm diameter with 4 mm hole
x = 25.0 g	glued on a copper heat sink with 25.4 mm diameter with 4 mm hole
x = 25.4 g	glued on a copper heat sink with 25.4 mm diameter with 4 mm hole

Spectral low intensity reflectance, transmittance and absorptance

