

SAM™ data sheet SAM-1550-55-x-2ps, $\lambda = 1550$ nm

Laser wavelength	$\lambda = 1550$ nm
High reflection band	$\lambda = 1480 \dots 1640$ nm
Absorbance	$A_0 = 55$ %
Modulation depth	$\Delta R = 36$ %
Non-saturable loss	$A_{ns} = 19$ %
Saturation fluence	$\Phi_{sat} = 20$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 2$ ps
Damage threshold	300 MW/cm ² pulse peak power density
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 μm ; optional: 150 μm on request
Protection	the SAM is protected with a dielectric front layer
Mounting of SAM-1550-35-x	denotes the type of mounting as follows:
x = 0	unmounted
x = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm \varnothing
x = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm \varnothing
x = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm \varnothing
x = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm \varnothing
x = 25.0 w	soldered on a water cooled Cu-cylinder with 25.0 mm \varnothing
x = FC	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance



