

SAM™ data sheet SAM-1550-17-10ps-x, $\lambda = 1550$ nm

Laser wavelength	$\lambda = 1550$ nm
High reflection band (R > 82%)	$\lambda = 1460 \dots 1600$ nm
Absorbance	$A_0 = 17$ %
Modulation depth	$\Delta R = 10$ %
Non-saturable loss	$A_{ns} = 7$ %
Saturation fluence	$\Phi_{sat} = 60$ $\mu\text{J}/\text{cm}^2$
Damage threshold	$\Phi_{dam} = 3$ mJ/cm^2
Relaxation time constant	$\tau \sim 10$ ps
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	450 μm
Protection	the SAM is protected with a dielectric front layer

Mounting option **x** denotes the type of mounting as follows:

x = 0	unmounted
x = 12.7 g	glued on a gilded Cu-cylinder with 12.7 mm \varnothing and 4 mm \varnothing center hole
x = 25.0 g	glued on a gilded Cu-cylinder with 25. mm \varnothing and 4 mm \varnothing center hole
x = 25.4 g	glued on a gilded Cu-cylinder with 25.4 mm \varnothing and 4 mm \varnothing center hole
x = FC	mounted on a 1 m single mode fiber cable with FC connector

Low intensity spectral reflectance

