

SAM™ data sheet SAM-1550-20-4ps-x, $\lambda = 1550 \text{ nm}$

Laser wavelength	$\lambda = 1550 \text{ nm}$
High reflection band	$\lambda = 1450 \dots 1580 \text{ nm}$
Absorbance	$A_0 = 20 \%$
Modulation depth	$\Delta R = 12 \%$
Non-saturable loss	$A_{\text{ns}} = 8 \%$
Saturation fluence	$\Phi_{\text{sat}} = 60 \mu\text{J}/\text{cm}^2$
Damage threshold	$\Phi_{\text{dam}} = 1 \text{ mJ}/\text{cm}^2$
Relaxation time constant	$\tau = 4 \text{ ps}$
Chip area	4.0 mm x 4.0 mm; 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

