

SAM™ Data Sheet SAM-940-4-1ps-x, $\lambda = 940$ nm

Laser wavelength	$\lambda = 940$ nm
High reflection band	$\lambda = 910 \dots 990$ nm
Absorbance	$A_0 = 4$ %
Modulation depth	$\Delta R = 2.6$ %
Non-saturable loss	$A_{ns} = 1.4$ %
Saturation fluence	$\Phi_{sat} = 70$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 1$ ps
Damage threshold	$\Phi = 3$ mJ/cm^2
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 copper heat sink with 12.7 mm \varnothing
x = 25.4 g	glued on a copper heat sink with 25.4 mm \varnothing
x = 12.7 s	soldered on a copper heat sink with 12.7 mm \varnothing
x = 25.4 s	soldered on a copper heat sink with 25.4 mm \varnothing
x = 25.0 h	soldered on a water cooled copper heat sink with 25.0 mm \varnothing
x = FC	mounted on a 1 m singlemode fiber cable with FC connector

low intensity spectral reflectance
