

SAM™ Data Sheet SAM-1300-8-10ps-x, $\lambda = 1300$ nm

Laser wavelength	$\lambda = 1300$ nm
High reflection band	$\lambda = 1240 \dots 1340$ nm
Saturable absorptance	$A_0 = 8$ %
Saturation fluence	$\Phi_{\text{sat}} = 60 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 10$ ps
Modulation depth	$\Delta R = 5$ %
Damage threshold	$\Phi = 900 \mu\text{J}/\text{cm}^2$
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 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 2 m monomode fiber cable with FC connector

Low intensity spectral reflectance

