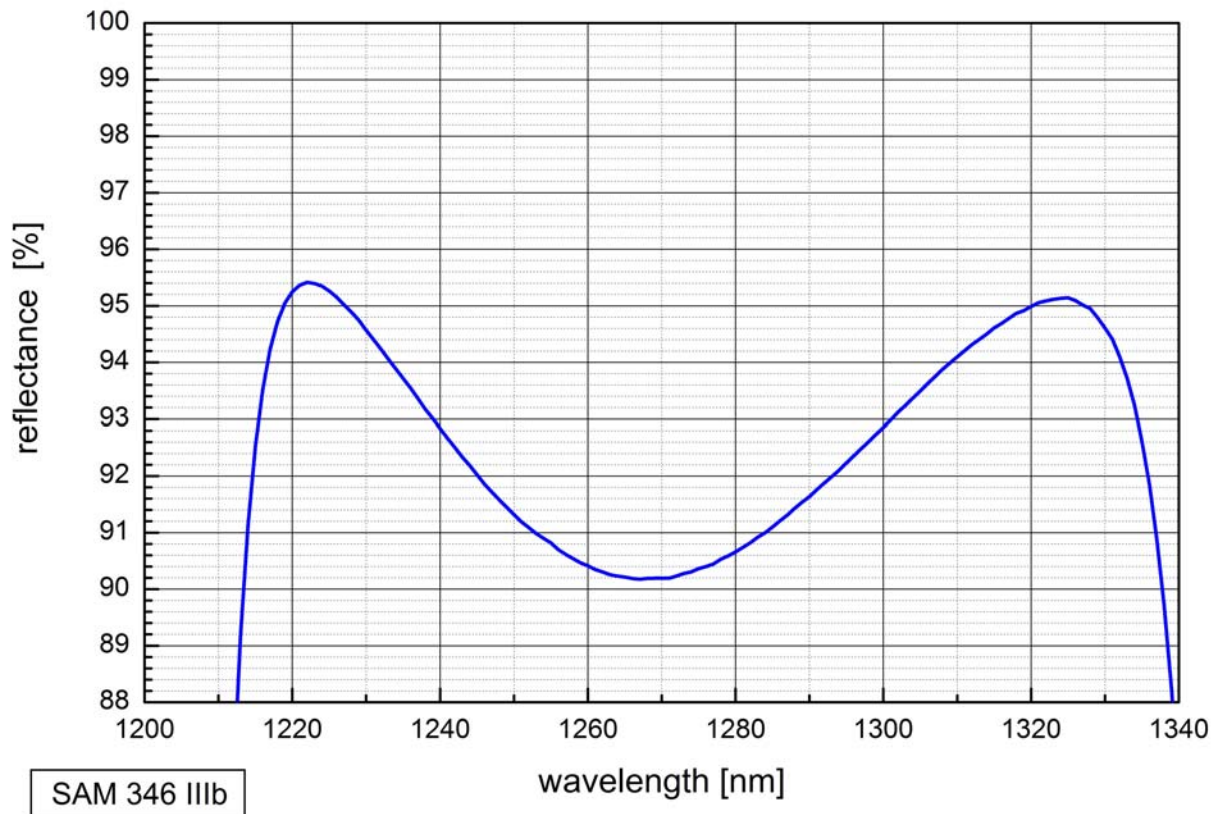


SAM™ data sheet SAM-1300-7-x, $\lambda = 1300 \text{ nm}$

Laser wavelength	$\lambda = 1300 \text{ nm}$
High reflection band (R > 90%)	$\lambda = 1220 \dots 1330 \text{ nm}$
Saturable absorptance	$A_0 = 7 \%$
Saturation fluence	$\Phi_{\text{sat}} = 60 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 10 \text{ ps}$
Modulation depth	$\Delta R = 4 \%$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 μm
Protection	the SAM is protected with a dielectric front layer
Mounting of SAM-1300-7-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 singlemode fiber cable with FC connector

Low intensity spectral reflectance



SAM 346 IIIb

