

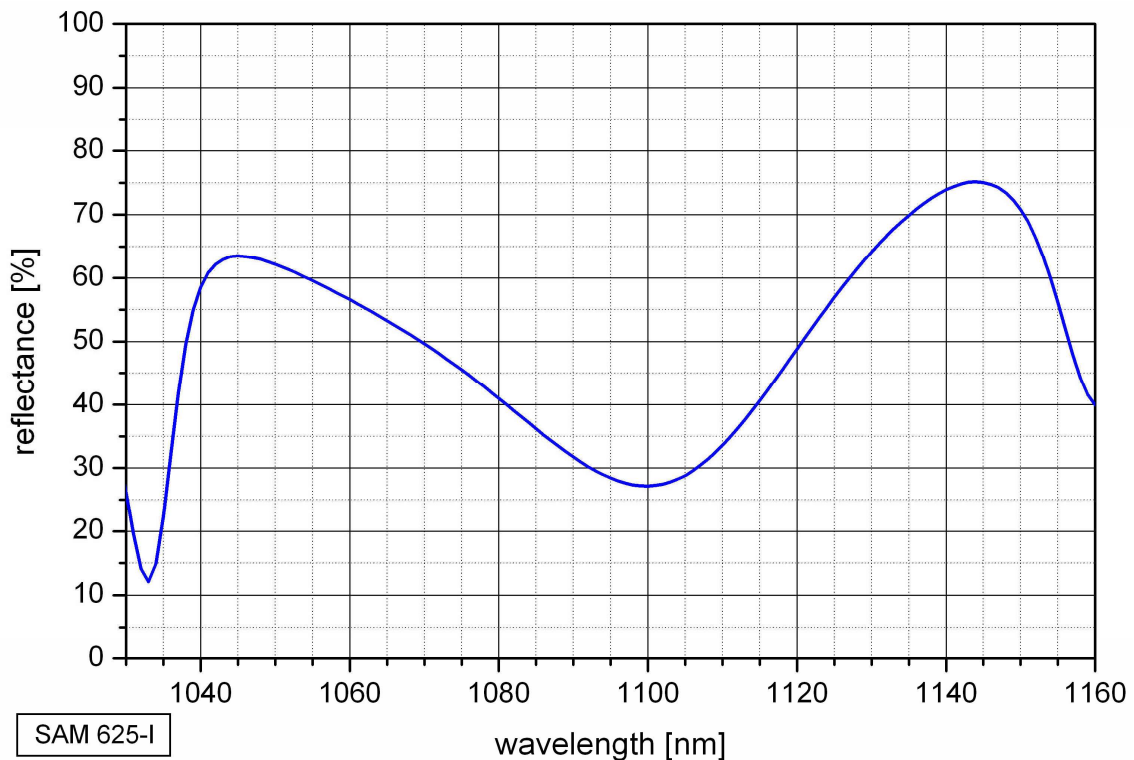
SAM™ Data Sheet SAM-1100-70-500fs-x, $\lambda = 1100$ nm

Laser wavelength	$\lambda = 1100$ nm
High reflection band	$\lambda = 1040 \dots 1150$ nm
Absorptance	$A_0 = 70$ %
Modulation depth	$\Delta R = 40$ %
Non-saturable loss	$A_{ns} = 30$ %
Saturation fluence	$\Phi_{sat} = 70 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500$ fs
Absorber layer	multiple quantum well
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 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 w** soldered water cooled copper heat sink with 25.0 mm \varnothing
- x = FC/PC** mounted on a 1 m monomode fiber cable with FC/PC connector

Low intensity spectral reflectance



SAM 625-I