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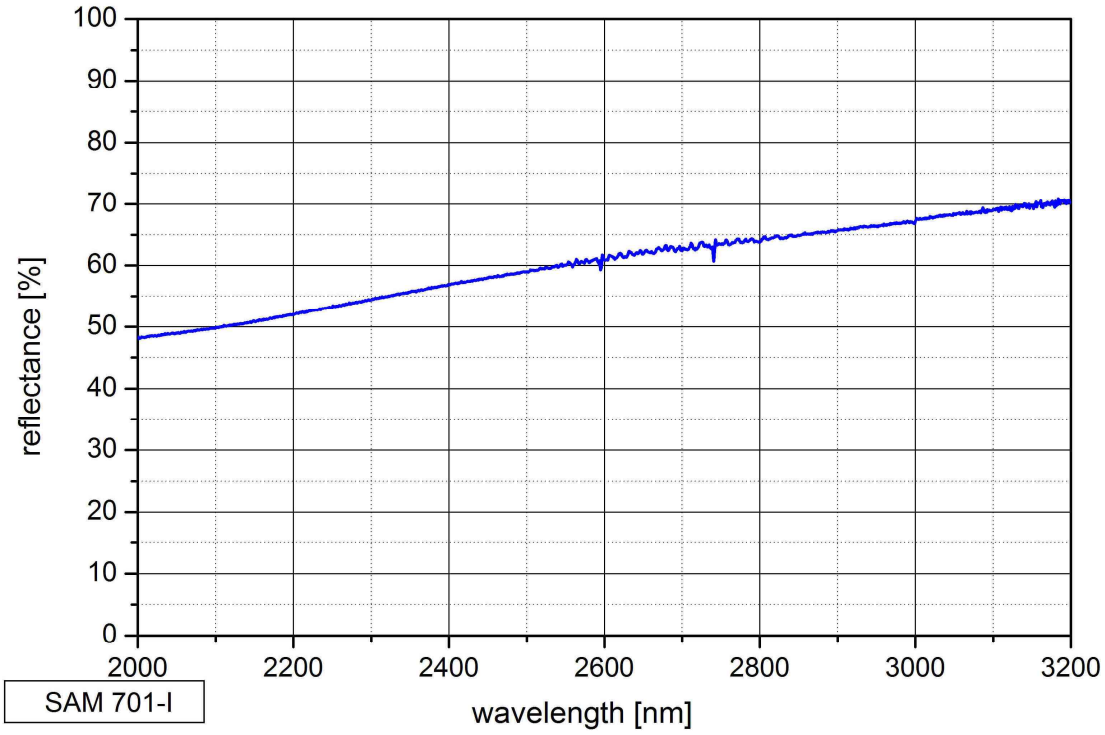
SAM™ Data Sheet SAM-3000-33-10ps-x, λ = 3000 nm

Laser wavelength	λ = 3000 nm
High reflection band	λ = 2000 .. 3400 nm
Absorbance	A_0 = 33 %
Modulation depth	ΔR = 18 %
Non-saturable loss	A_{ns} = 15 %
Saturation fluence	Φ_{sat} = 70 µJ/cm^2
Relaxation time constant	τ ~ 10 ps
Damage threshold	Φ = 1 mJ/cm^2
Chip area	4.0 mm x 4.0 mm; other dimensions on request
Chip thickness	625 µm
Design	The SAM use a gold mirror
	The laser beam goes through the AR coated GaAs wafer

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 ∅
x = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm ∅
x = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm ∅
x = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm ∅
x = FC	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance



Reverse design of the SAM-3000-33-1ps-x