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BATOP
optoelectronics

SAM™ Data Sheet SAM-1100-90-500fs-x, λ = 1100 nm

Laser wavelength	λ = 1100 nm
High reflection band	λ = 1040 .. 1150 nm
Absorptance	A_0 = 90 %
Modulation depth	ΔR = 50 %
Non-saturable loss	A_{ns} = 40 %
Saturation fluence	Φ_{sat} = 40 μJ/cm^2
Relaxation time constant	τ ~ 500 fs
Damage threshold	Φ = 400 μJ/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-III