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BATOP optoelectronics

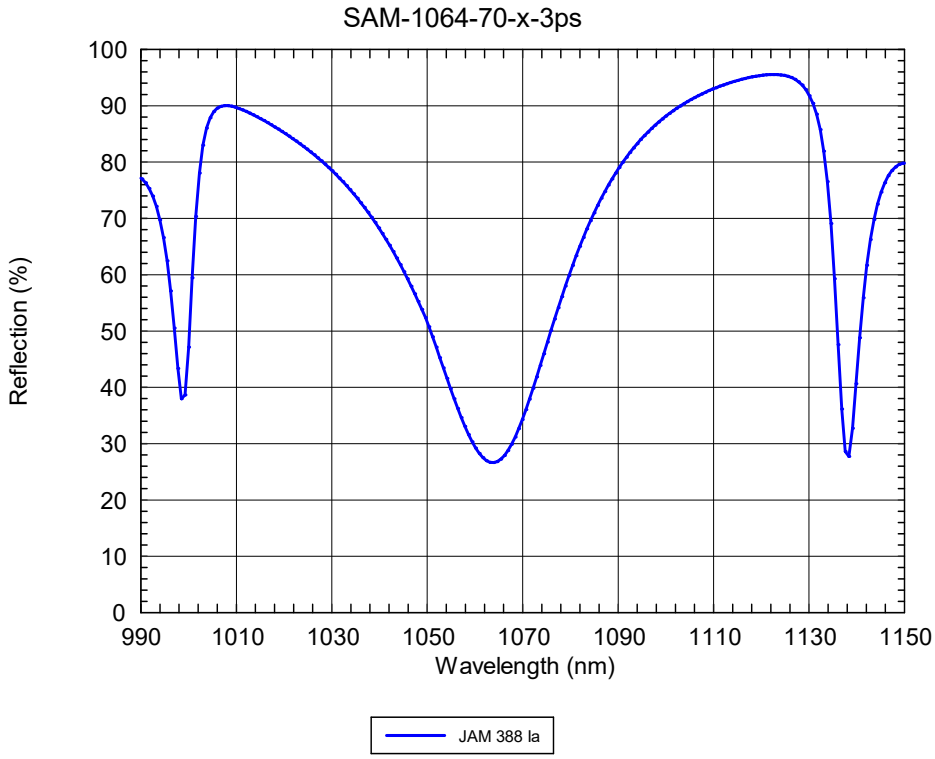
SAM™ Data Sheet SAM-1064-70-3ps-x, λ = 1064 nm

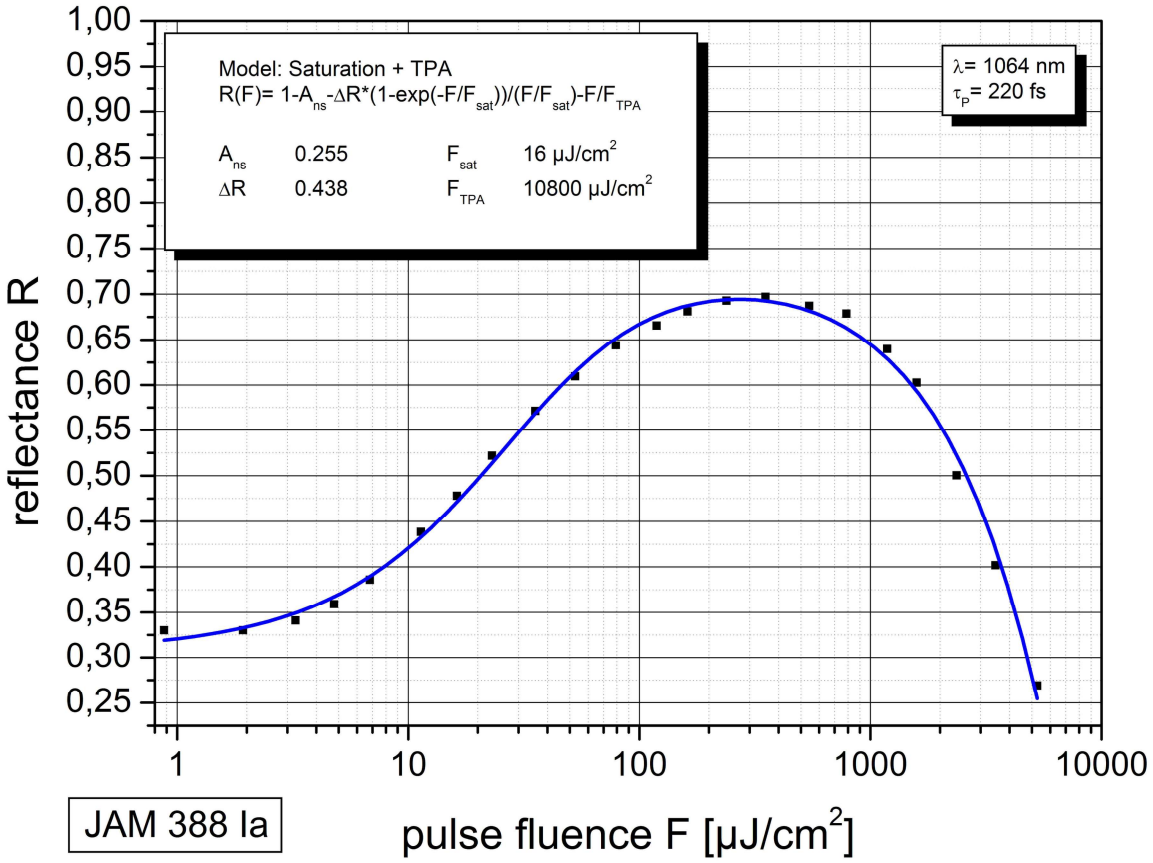
Laser wavelength	λ = 1064 nm
High reflection band	λ = 1010 .. 1120 nm
Absorptance	A_0 = 70 %
Modulation depth	ΔR = 44 %
Non-saturable loss	A_{ns} = 26 %
Saturation fluence	Φ_{sat} = 16 µJ/cm^2
Relaxation time constant	τ = 2.3 ps at Φ_{sat} , τ > 3 ps at Φ > 50 µJ/cm^2
Damage threshold	Φ = 400 µJ/cm^2
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 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/PC	mounted on a 1 m monomode fiber cable with FC/PC connector

Low intensity spectral reflectance





Pump-probe measurement