BATOP optoelectronics

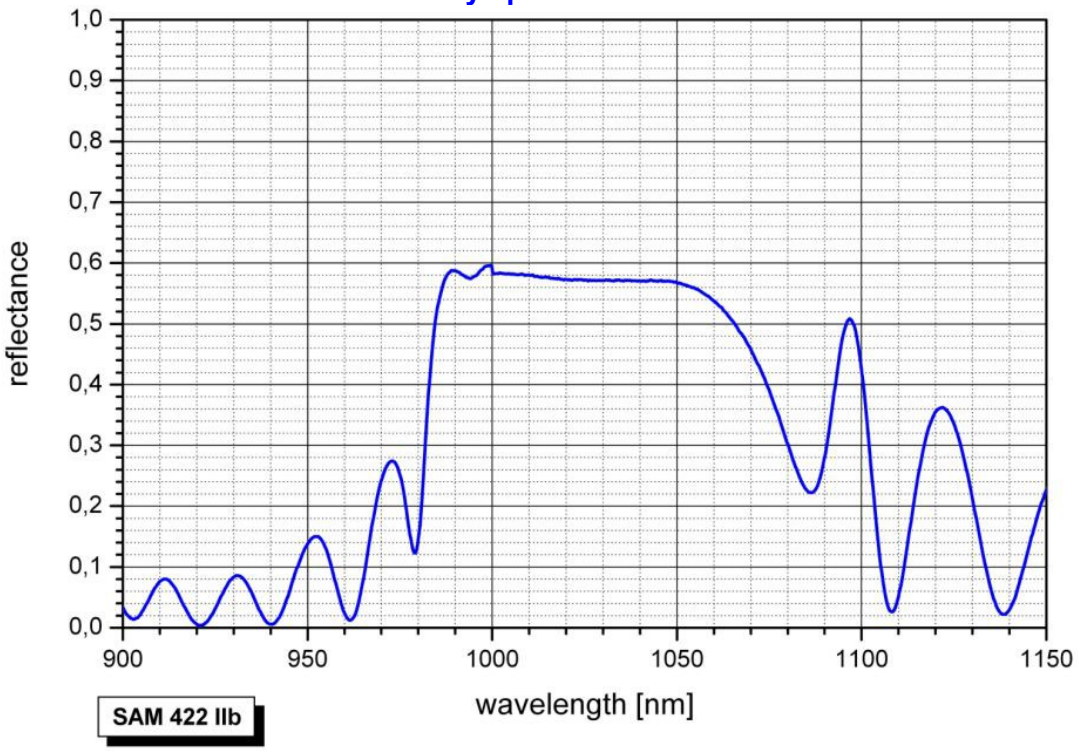
SAM™ Data Sheet SAM-1064-50-9ps-x, λ = 1064 nm

Laser wavelength	λ = 1064 nm
High reflection band (R > 50%)	λ = 990 .. 1064 nm
Absorptance	A_0 = 50 %
Modulation depth	ΔR = 33 %
Non-saturable loss	A_{ns} = 17 %
Saturation fluence	Φ_{sat} = 102 µJ/cm^2
Relaxation time constant	τ ~ 9 ps
Damage threshold	0.4 GW/cm^2
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 µm; optional: 150 µm on request
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	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance



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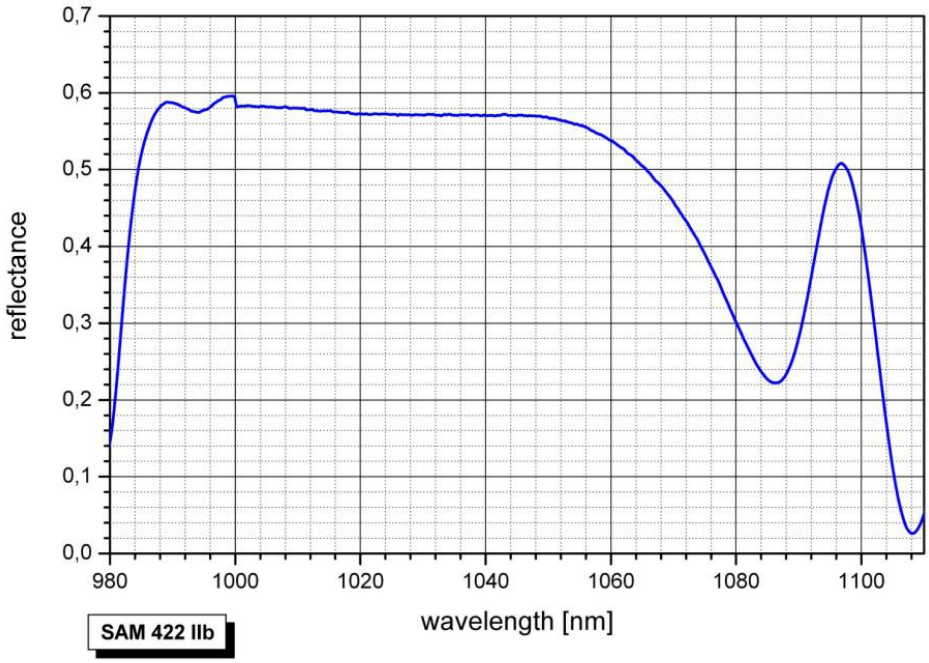
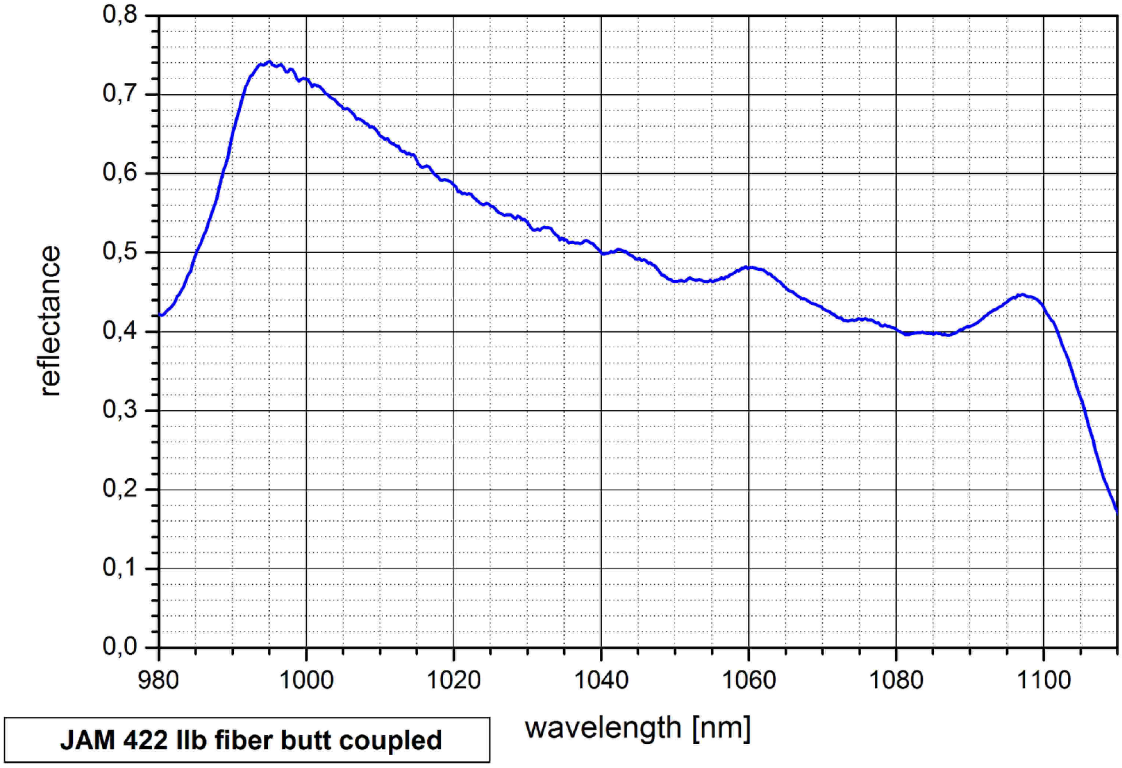
Local Court Jena HRB 112769



Low intensity spectral reflectance of fiber butt coupled SAM-1064-50-FC-9ps



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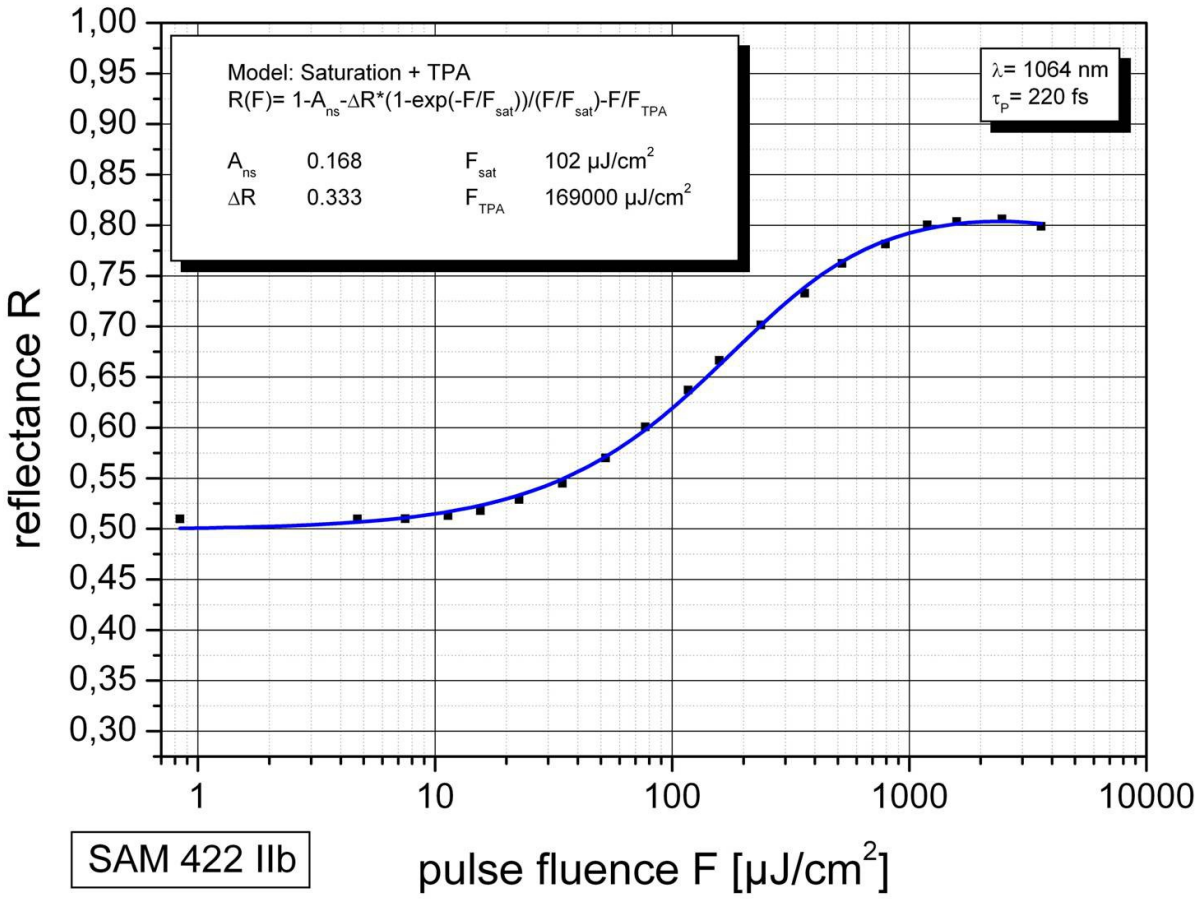
Saturation measurement



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