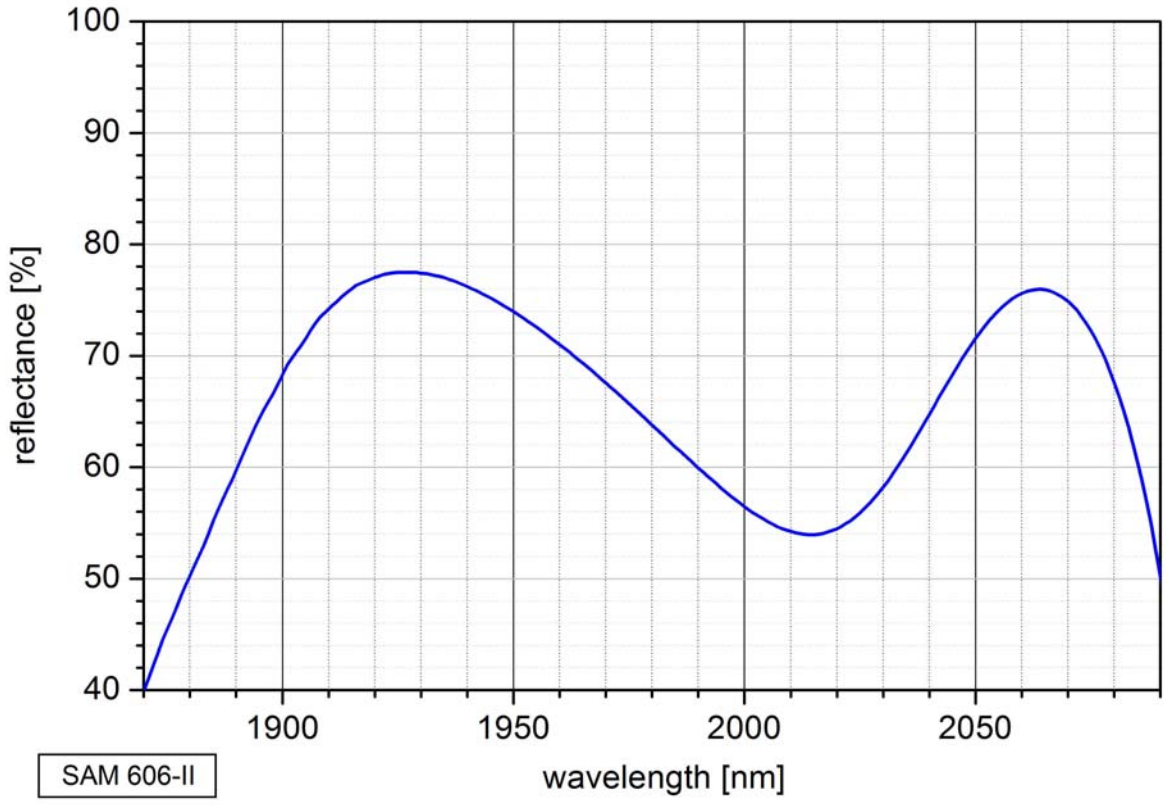
SAM™ data sheet SAM-2000-34-x-500fs, λ = 2000 nm

Laser wavelength	λ = 2000 nm
High reflection band (R > 55%)	λ = 1900 .. 2060 nm
Absorbance	A_0 = 34 %
Modulation depth	ΔR = 19 %
Non-saturable loss	A_{ns} = 15 %
Saturation fluence	Φ_{sat} = 130 µJ/cm^2
Relaxation time constant	τ ~ 500 fs
Damage threshold	350 MW/cm^2
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 µm
Protection	the SAM is protected with a dielectric front layer

Mounting of SAM-2000-34-**x**-500fs 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

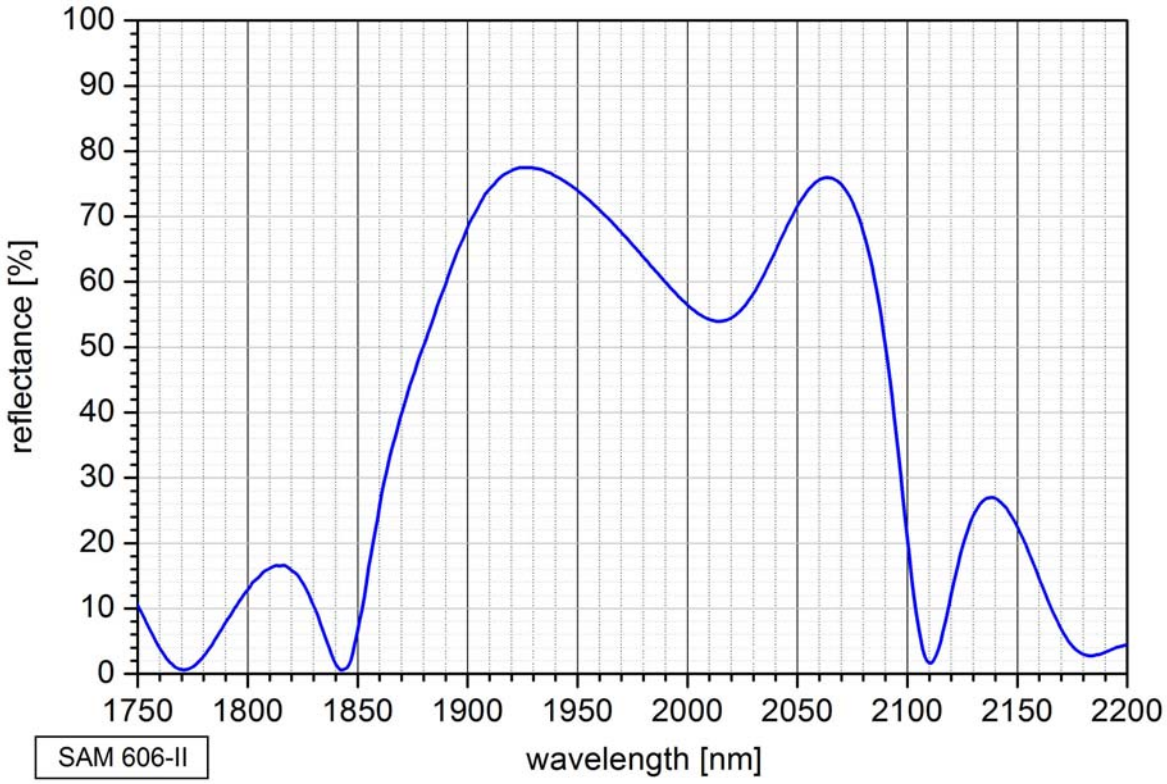


BATOP GmbH
Wildenbruchstraße 15
D-07745 Jena
Germany

Tel: +49 3641 634009 - 0
Fax: +49 3641 634009 - 20
E-mail: info@batop.de

Deutsche Bank Jena
Bank Code: 82070024
Account No: 3922655
IBAN: DE49 8207 0024 0392 2655 00

VAT Reg. No: DE 813698804
Tax Acc. No: 161/106/02514
Local Court Jena HRB 112769



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