BATOP optoelectronics

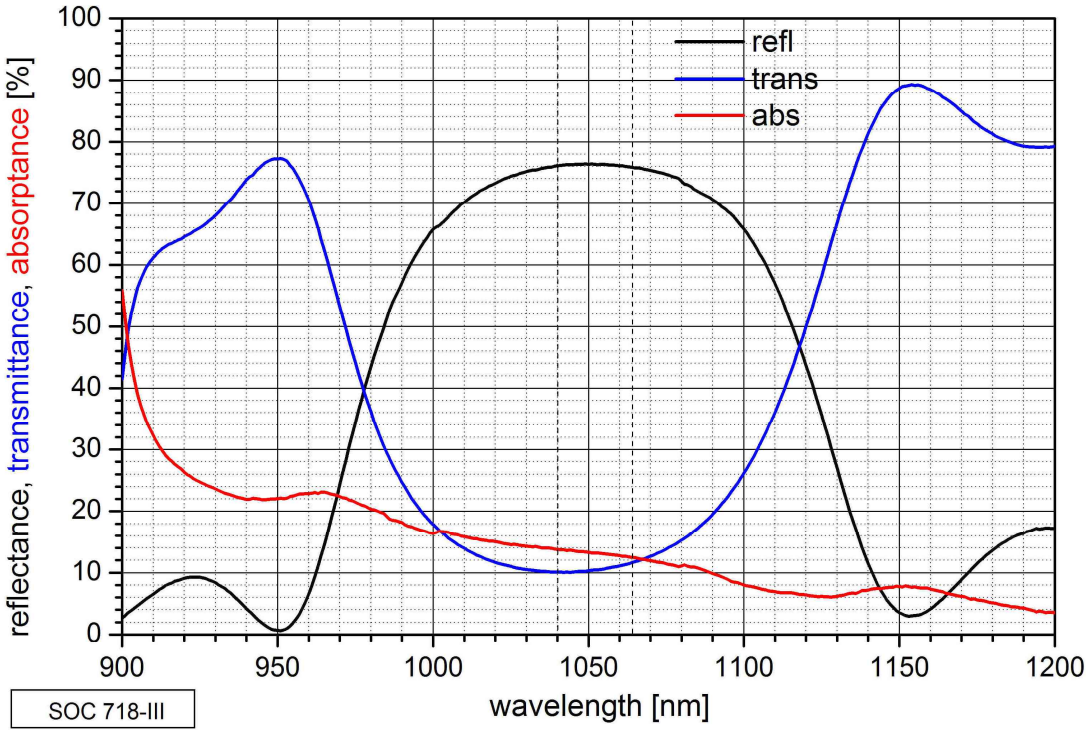
SOC (saturable output coupler) data sheet SOC-1064-13-12-15ps, λ = 1040 nm

Laser wavelength	λ = 1064 nm
Transmittance	T = 12 %
Reflectance	R = 76 %
Absorptance	A_0 = 13 %
Modulation depth	ΔR = 6,5 %
Non-saturable loss	A_{ns} = 5 %
Saturation fluence	Φ_{sat} = 60 µJ/cm^2
Damage threshold	Φ_{dam} = 5 mJ/cm^2
Relaxation time constant	τ ~ 15 ps
Chip area	5.0 mm x 5.0 mm; other dimensions on request
Chip thickness	625 µm; semi-insulating GaAs
Front side protection	with a dielectric layer
Back side AR coating	the SOC back side has been polished and broadband -antireflection coated for 1050 nm

Mounting option **x** denotes the type of mounting as follows:

x = 0	unmounted
x = 12.7 g	glued on a gilded Cu-cylinder with 12.7 mm ∅ and 4 mm ∅ center hole
x = 25.0 g	glued on a gilded Cu-cylinder with 25. mm ∅ and 4 mm ∅ center hole
x = 25.4 g	glued on a gilded Cu-cylinder with 25.4 mm ∅ and 4 mm ∅ center hole
x = FC	mounted on a 1 m single mode fiber cable with FC connector

Spectral reflectance, transmittance and absorptance



Pump-probe measurement of relaxation time of SOC-1040-8-15