

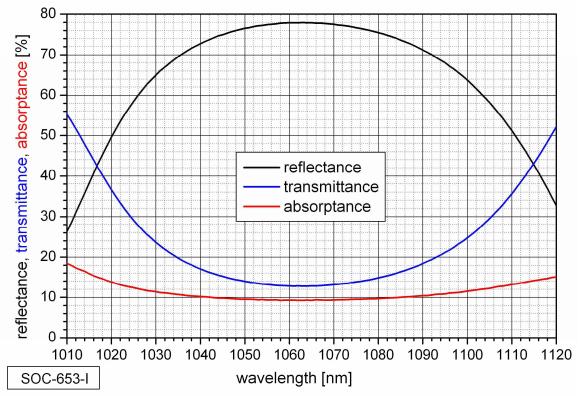
SOC data sheet SOC-1064-9-13-17ps-x, λ = 1064 nm

Laser wavelength	λ = 1064 nm
Absorptance	A ₀ = 9 %
Transmittance	T = 13 %
Reflectance	R = 78 %
Modulation depth	$\Delta R = 6 \%$
Non-saturable loss	A _{ns} = 5 %
Saturation fluence	Φ_{sat} = 66 μ J/cm ²
Relaxation time constant	τ ~ 17 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 is polished and antireflection coated for 1064 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 \varnothing and 4 mm \varnothing center hole
x = 25.0 g	glued on a gilded Cu-cylinder with 25. mm \varnothing and 4 mm \varnothing center hole

x = 25.4 g	glued on a gilded Cu-cylinder with 25.4 mm $arnothing$ and 4 mm $arnothing$ center hole
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x = FC mounted on a 1 m single mode fiber cable with FC connector

Spectral reflectance, transmittance and absorptance





reflectance saturation measurement

