

SOC (saturable output coupler) data sheet SOC-1064-8-8-15ps, λ = 1064 nm

Laser wavelength	$\lambda = 1064 \text{ nm}$	
Transmittance	T = 8 %	
Reflectance	R = 84 %	
Absorptance	$A_0 = 8 \%$	
Modulation depth	∆R = 4,5 %	
Non-saturable loss	A _{ns} = 3,0 %	
Saturation fluence	Φ_{sat} = 70 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	
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$\mathbf{x} = 0$	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 \varnothing and 4 mm \varnothing center hole
x = FC	mounted on a 1 m single mode fiber cable with FC connector

Spectral reflectance, transmittance and absorptance







