

SOC (saturable output coupler) data sheet SOC-1040-14-10-15ps, λ = 1040 nm

Laser wavelength	λ = 1040 nm	
Transmittance	T = 10 %	
Reflectance	R = 76 %	
Absorptance	$A_0 = 14 \%$	
Modulation depth	∆R = 7,5 %	
Non-saturable loss	A _{ns} = 5,5 %	
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	
Nounting option & denotes the type of mounting op follows:		

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 $arnothing$ and 4 mm $arnothing$ 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





