

RSAM data sheet RSAM-1550-10ps-x, $\lambda = 1550$ nm

RSAM - Resonant saturable absorber mirror

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|----------------------------|--|
| Working wavelength | $\lambda = 1550$ nm (angle and temperature dependent) |
| Full Width at Half Maximum | FWHM = 15 nm |
| Low intensity absorptance | $A = 98$ % |
| Low intensity reflectance | $R_{\min} \leq 2$ % |
| Saturation fluence | $\Phi_{\text{sat}} = 15$ $\mu\text{J}/\text{cm}^2$ |
| Relaxation time constant | $\tau \sim 10$ ps |
| Non-saturable loss | $A_{\text{ns}} \sim 40$ %, depending on the pulse duration |
| Chip area | 4.0 mm x 4.0 mm; other dimensions on request |
| Chip thickness | 450 μm |
| Front side | dielectric cover |

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

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|---------------------------|---|
| x = 0 | unmounted |
| x = 12.7 g | glued on a gold plated Cu-cylinder with 12.7 mm \varnothing |
| x = 25.4 g | glued on a gold plated Cu-cylinder with 25.4 mm \varnothing |
| x = 12.7 s | soldered on a gold plated Cu-cylinder with 12.7 mm \varnothing |
| x = 25.4 s | soldered on a gold plated Cu-cylinder with 25.4 mm \varnothing |
| x = 25.0 w | soldered on a water cooled Cu-cylinder with 25.0 mm \varnothing |
| x = FC | mounted on a 1 m single mode fiber cable with FC connector |
| x = FC/PC with TEC | mounted on a 1 m single mode fiber cable with FC/PC or other connector type and TEC (thermoelectric cooler) for fine tuning of the resonance wavelength |

Unsaturated spectral reflectance, measured at room temperature with 13° angle of incidence

