

SAM™ Data Sheet SAM-1040-56-700fs-x, $\lambda = 1040\text{nm}$

| | |
|--------------------------|---|
| Laser wavelength | $\lambda = 1040\text{ nm}$ |
| High reflection band | $\lambda = 980 \dots 1070\text{ nm}$ |
| Absorbance | $A_0 = 56\%$ |
| Modulation depth | $\Delta R = 34\%$ |
| Non-saturable loss | $A_{\text{ns}} = 22\%$ |
| Saturation fluence | $\Phi_{\text{sat}} = 70\text{ }\mu\text{J}/\text{cm}^2$ |
| Relaxation time constant | $\tau \sim 700\text{ fs}$ |
| Damage threshold | $\Phi = 900\text{ }\mu\text{J}/\text{cm}^2$ |
| Chip area | 4.0 mm x 4.0 mm; other dimensions on request |
| Chip thickness | 450 μm |
| Protection | the SAM is protected with a dielectric front layer |

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

| | |
|-------------------|--|
| 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 = FC | mounted on a 1 m monomode fiber cable with FC connector |

Low intensity spectral reflectance

