

SAM™ Data Sheet SAM-1040-4-800fs-x, $\lambda = 1040 \text{ nm}$

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|--------------------------|--|
| Laser wavelength | $\lambda = 1040 \text{ nm}$ |
| High reflection band | $\lambda = 1010 \dots 1060 \text{ nm}$ |
| Absorbance | $A_0 = 4 \%$ |
| Modulation depth | $\Delta R = 2.6 \%$ |
| Non-saturable loss | $A_{ns} = 1.4 \%$ |
| Saturation fluence | $\Phi_{sat} = 120 \mu\text{J}/\text{cm}^2$ |
| Relaxation time constant | $\tau = 800 \text{ fs}$ |
| Damage threshold | $\Phi = 3 \text{ mJ}/\text{cm}^2$ |
| 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 = 25.0 w | soldered on a water cooled Cu-cylinder with 25.0 mm \varnothing |
| x = FC | mounted on a 1 m monomode fiber cable with FC connector |

Low intensity spectral reflectance and dispersion

