

SAMTM Data Sheet SAM-940-6-1ps-x, $\lambda = 940$ nm

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|--------------------------|----------------------------------------------------|
| Laser wavelength | $\lambda = 940$ nm |
| High reflection band | $\lambda = 920 \dots 990$ nm |
| Absorbance | $A_0 = 6$ % |
| Modulation depth | $\Delta R = 3.5$ % |
| Non-saturable loss | $A_{ns} = 2.5$ % |
| Saturation fluence | $\Phi_{sat} = 50$ $\mu\text{J}/\text{cm}^2$ |
| Relaxation time constant | $\tau \sim 1$ ps |
| Damage threshold | $\Phi = 2$ mJ/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 copper heat sink with 12.7 mm \varnothing |
| x = 25.4 g | glued on a copper heat sink with 25.4 mm \varnothing |
| x = 12.7 s | soldered on a copper heat sink with 12.7 mm \varnothing |
| x = 25.4 s | soldered on a copper heat sink with 25.4 mm \varnothing |
| x = 25.0 h | soldered on a water cooled copper heat sink with 25.0 mm \varnothing |
| x = FC | mounted on a 1 m singlemode fiber cable with FC connector |

low intensity spectral reflectance

