

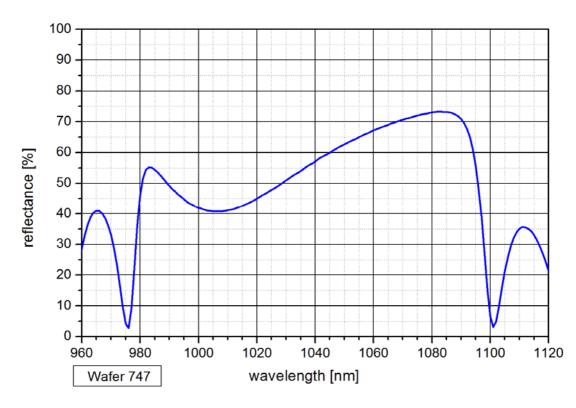
SAMTM Data Sheet SAM-1040-43-1ps-x, λ = 1040 nm

Laser wavelength	$\lambda = 1040 \text{ nm}$
High reflection band (R > 40%)	λ = 990 1080 nm
Absorbance	$A_0 = 43 \%$
Modulation depth	$\Delta R = 25 \%$
Non-saturable loss	A _{ns} = 18 %
Saturation fluence	Φ_{sat} = 70 µJ/cm ²
Relaxation time constant	τ ~ 1 ps
Damage threshold	Φ = 1.5 mJ/cm ²
Chip area	4 mm x 4 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:	
$\mathbf{x} = 0$	unmounted
x = 12.7 g	5 11
x = 25.4 g	•
x = 12.7 s	soldered on a copper heat sink with 12.7 mm $arnothing$
x = 25.4 s	soldered on a copper heat sink with 25.4 mm \varnothing

x = 25.0 w soldered on a water cooled copper heat sink with 25.0 mm \varnothing

x = FC mounted on a 1 m single mode fiber with FC connector

Low intensity spectral reflectance and dispersion



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 Description