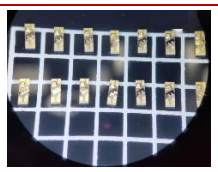


The Gain chip series products of Goptica are semiconductor optical components that can be used as optical gain media for external cavity semiconductor lasers. Goptica can provide either a low reflectance type or a high reflectance type as the reflectance on the vertical facet side. And can supply Chip or COC type products, can also be packaged into devices according to customer needs.

Product characteristics

- Own chip, the whole process of domestic autonomous control
- C-band
- Low ripple products
- HR reflectivity :95%

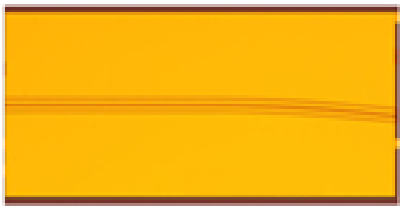
Product application

- External cavity type adjustable light source
- Silicon light adjustable light source

Product specification

Argument	Symbol	Working condition	Minimum value	Typical value	Maximum value	Unit
Working current	Iop			180	240	mA
Forward voltage	V_F	---		1.2	2	V
Central wavelength	λ_c	If=180mA，Tc=25℃		1530		nm
ASE power	P_{ASE}	If=180mA，Tc=25℃		1		mW
ASE ripple	Ripple	If=180mA，Tc=25℃		0.5	2	dB
Light Angle	θ_R			20		°
Divergence Angle (Vertical)	θ_t	---	---	24.9		°
Divergence Angle (horizontal)	θ_p	---	---	16.7		°
AR reflectance	R_{ANG}			0.01		%
HR reflectivity	R_{NOR}			95		%
Operating temperature	T_C	I=Iop		25	40	℃
Storage temperature	Tstg	-40		---	85	℃
Chip size		1000*500*140（±20）				μm

Structural dimension



1000μm(L)×500μm(W)×140μm(H)

Ordering information

Ordering information	Product description	Mass production stage
JSG-S55R95P01	Gain chip COC,1550nm,HR reflectivity 95%	