

High Power Polarization-Insensitive Optical Isolator (1053 & 1064nm)



ACP's 1053 & 1064nm High Power Polarization Insensitive Isolator is characterized with low insertion loss, high isolation, high power handling, high return loss, excellent environmental stability and reliability. It is ideal for fiber laser and instrumentation applications.

PERFORMANCE SPECIFICATIONS

Parameter	Specifications			
	1053nm		1064nm	
Operating Wavelength				
Optical Power	10W	20W	1W	2W
Isolation (Typ.)	30dB		35dB	
Isolation (Min.)	≥ 25 ¹⁾ dB		≥ 28 ¹⁾ dB	
Insertion Loss (Typ.)	1.3 ²⁾ dB		1.7 ²⁾ dB	
Insertion Loss (Max.)	≤ 1.5 ³⁾ dB		≤ 2.5 ³⁾ dB ≤ 3.0 ³⁾ dB	
Return Loss (In/Out)	≥ 45/45dB		≥ 50/50dB	
Polarization Dependent Loss	≤ 0.15dB		≤ 0.20dB	
Peak Power for ns Pulse (Max.)	≤ 5kW		≤ 10kW	
Tensile Load (Max.)	≤ 5N			
Fiber Type	HI1060			
Fiber Length (Min.)	1m (each end)			
Operating Temperature	10 to +50°C			
Storage Temperature	0 to +60°C			
Package Dimensions (LxWxH)(mm)	A Package		M Package	
	60x31.5x28	65x40x40	33x11.5x17	

Note: 1) Overall bandwidth at 23°C
 2) Not including connector, splice and fiber-end Fresnel losses.
 3) Including PDL, operating wavelength range, -20° C to +70° C.
 All values referenced are without connector.

FEATURES

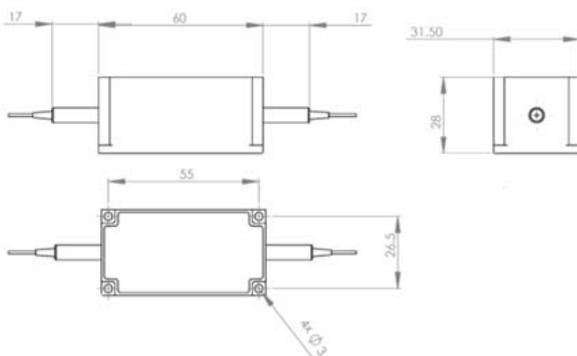
- High Isolation
- Low Insertion Loss
- High Return loss
- Low Polarization Sensitivity
- Epoxy Free Optical Path

APPLICATION

- Fiberoptic Amplifiers
- CATV Fiberoptic Links
- Fiberoptic Systems Testing
- Test and Measurement
- Telecommunications

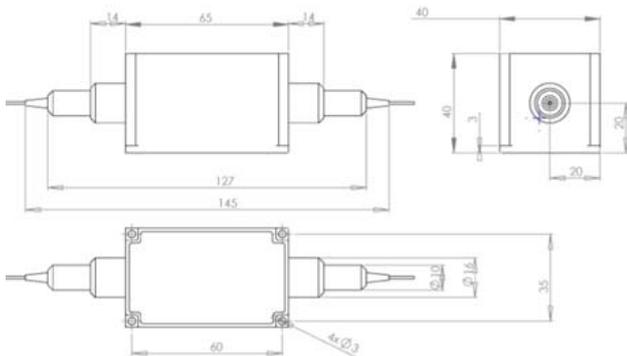
MECHANICAL DIMENSIONS

A package (10W):

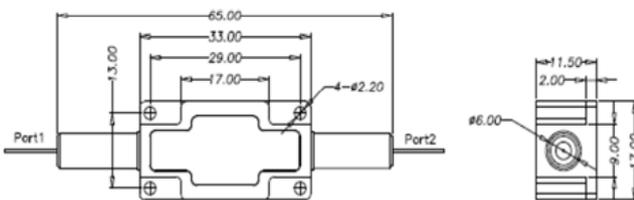


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A package (20W):



M package:



PORT CONFIGURATIONS



ORDERING INFORMATION

Type	Power Type	Operating Wavelength	Package	Fiber Type	Pigtail Style	Fiber Length	In Connector	Out Connector
H1IS=Single stage, 1W	P=Pulse	05=1053nm	A=A package	6=HI 1060	1=Bare fiber	05=0.5m	0= None	0= None
H2IS=Single stage, 2W	C=Continuous	06=1064nm	M=M package		2=900um loose tube	10=1.0m	1= FC/APC	1= FC/APC
H10IS=Single stage, 10W							2= FC/PC	2= FC/PC
H20IS=Single stage, 20W							3= SC/APC	3= SC/APC
						20=2.0m	4= SC/PC	4= SC/PC
							5= ST	5= ST
							6= LC/UPC	6= LC/UPC
							7= LC/APC	7= LC/APC