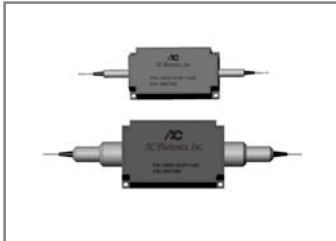


1053nm High Power Polarization-Insensitive Optical Isolator



ACP's 1053 nm 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.

All AC Photonics' products are Telcordia qualification tested.

Key Features

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

Applications

- Fiberoptic Amplifiers
- CATV Fiberoptic Links
- Fiberoptic Systems Testing
- Fiberoptic LAN Systems
- Telecommunications

Performance Specifications

| Parameter | Specifications | |
|--------------------------------|------------------|----------------|
| | 1053nm(10W) | 1053nm(20W) |
| Operating Wavelength | 1053nm | |
| Peak Isolation (Typ.) | 30dB | |
| Isolation* (Min.) | 25dB | |
| Insertion Loss** (Typ.) | 1.3dB | |
| Insertion Loss*** (Max.) | 1.5dB | |
| Return Loss (In/Out) | ≥ 45/45dB | |
| PDL | ≤ 0.15dB | |
| Optical Power | 10W | 20W |
| Peak Power for ns Pulse (Max.) | 5kW | |
| Tensile Load (Max) | 5N | |
| Operating Temperature | -20 to +70°C | |
| Storage Temperature | -40 to +85°C | |
| Fiber Type | HI 1060 | |
| Fiber Length (Min.) | 1 meter each end | |
| Package Dimensions | 60mmx31.5mmx28mm | 65mmx40mmx40mm |

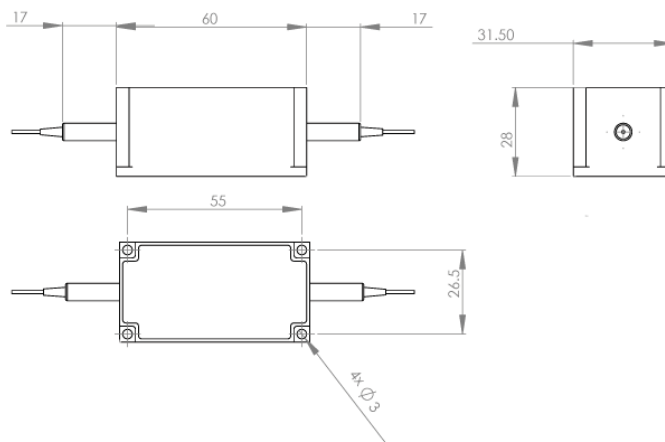
Note:

* At 23° C over bandwidth

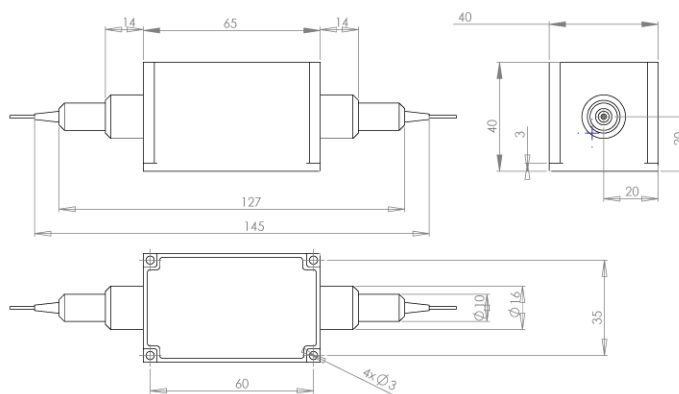
** Does not include connector, splice and fiber-end fresnel losses.

*** Including PDL, operating wavelength range, -20° C to +70° C.

Mechanical Dimensions (10W)



Mechanical Dimensions (20W)



Ordering Information

| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
|--|-----------------------------|----------------------|------------------------------------|---|----------------------|--|
| HXIS | Operating Wavelength | Grade | Pigtail Style | Fiber Length | Fiber Type | In/Out Connector |
| X = 1, 1W X=5, 5W X=A, 10W X=B, 20W | 1053 = 1053nm | P = P Grade | 1 = Bare Fiber 2 = 900um Jacket | 1 = 1.0m 2 = 1.5m 3 = 2.0m 4 = Custom Length | 3 = HI 1060 Fiber | 0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC |