

# What material is the casing of the optical module made of



## Overview

The casing is usually made of materials such as metal or high-grade plastic. In addition to protection, the casing also plays a crucial role in electromagnetic interference (EMI) shielding. An optical module housing is the protective outer shell that encloses the internal components of an optical transceiver module. These modules are essential for converting electrical signals into light signals and vice versa, forming the backbone of fiber optic communication systems in data centers. Optical module housing, also known as transceiver housing or optic module enclosure, is a protective casing designed to hold and protect optical modules used in various communication and networking applications. Integrated Circuit Fabrication: The electronic digital signal processor, optical engine, and laser chips are manufactured through semiconductor foundry processes.

## What material is the casing of the optical module made of



Disclosed are an optical module packaging structure and an optical module. The optical module packaging structure comprises: a top cover (100), a bottom plate (300), and a middle...



Historically, optical transceiver casing have been constructed from metallic materials, given their robustness and thermal conductivity. However, the increasing adoption of plastic parts in ...



Optical transceiver housing is generally made of die-casting. Materials used include aluminum, zinc, copper, brass and bronze alloys.



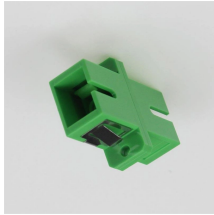
The SFP+SC housing is made from zinc alloy die casting, it have higher thermal conductivity, intensity and consistency. The shield use SUS304 stainless steel used for manufacturing, which have higher ...



Simply put, a fiber optic cage (also commonly called an optical transceiver cage or cage assembly) is a precision metal housing designed to securely hold, align, and connect an optical ...



The primary structure of an optical transceiver housing typically includes a robust outer shell made from high-grade materials such as stainless steel, aluminum, or specialized plastics.



The OSFP housing is made from zinc alloy die casting, it have higher thermal conductivity, intensity and consistency. The shield use SUS304 stainless steel used for manufacturing, which have higher ...



The casing is usually made of materials such as metal or high-grade plastic. Intended to protect internal components from physical damage and environmental factors.



Optical transceiver housing is generally made of die-casting. Materials used include aluminum, zinc, copper, brass and bronze alloys.



Discover the role of optical module housings in data centers & 5G. Learn about materials like ceramics & alloys, thermal challenges, and explore Link-PP's optical transceivers.



Transceiver Housing: The transceiver subassemblies will be housed in a metal casing, usually made from an aluminum alloy. The design and manufacturing of these housings must ...

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.samastersbaseball.co.za>

Email: [sales@samastersbaseball.co.za](mailto:sales@samastersbaseball.co.za)

Phone: +27 63 874 2095

Address: 15 Innovation Drive, Technopark, Stellenbosch, 7600, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

