

<b>STN</b>	<b>Optovláknové aktívne súčiastky a prvky Normy na prevádzkové charakteristiky Časť 11: Puzdro CSP s viackanálovým vysielačom/prijímačom s rozhraním viacvidového vlákna</b>	<b>STN EN IEC 62149-11</b>  35 9255
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Fibre optic active components and devices - Performance standards - Part 11: Multiple channel transmitter/receiver chip scale package with multimode fibre interface

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/20

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EUROPEAN STANDARD

**EN IEC 62149-11**

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Fibre optic active components and devices - Performance standards - Part 11: Multiple channel transmitter/receiver chip scale package with multimode fibre interface  
(IEC 62149-11:2020)

Composants et dispositifs actifs fibroniques - Normes de performances - Partie 11: Boîtier-puce émetteur/récepteur à plusieurs canaux avec interface à fibre multimodale  
(IEC 62149-11:2020)

Aktive Lichtwellenleiterbauelemente und -geräte - Betriebsverhaltensnormen - Teil 11: Mehrkanal-Sender-Empfänger-Chip-Scale-Bauelemente mit Mehrmodenfaser-Schnittstelle  
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**EN IEC 62149-11:2020 (E)****European foreword**

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IEC 62007-1	NOTE	Harmonized as EN 62007-1
IEC 62007-2	NOTE	Harmonized as EN 62007-2
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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fibre optic active components and devices – Performance standards –  
Part 11: Multiple channel transmitter/receiver chip scale package with multimode  
fibre interface**

**Composants et dispositifs actifs fibroniques – Normes de performances –  
Partie 11: Boîtier-puce émetteur/récepteur à plusieurs canaux avec interface  
à fibre multimodale**



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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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**FIBRE OPTIC ACTIVE COMPONENTS AND DEVICES –  
PERFORMANCE STANDARDS –**
**Part 11: Multiple channel transmitter/receiver chip scale package with  
multimode fibre interface**

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International Standard IEC 62149-11 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

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CDV	Report on voting
86C/1596/CDV	86C/1615/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62149 series, published under the general title *Fibre optic active components and devices – Performance standards*, can be found on the IEC website.



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## INTRODUCTION

A photonic chip scale package (CSP) is used to convert electrical signals into optical signals and vice-versa. This document covers the performance standards for photonic chip scale packages for use with multimode fibre through free space optics or multiple channel optical fibre connectors.

## **FIBRE OPTIC ACTIVE COMPONENTS AND DEVICES – PERFORMANCE STANDARDS –**

### **Part 11: Multiple channel transmitter/receiver chip scale package with multimode fibre interface**

#### **1 Scope**

This part of IEC 62149 specifies the performance standards for a multiple channel transmitter/receiver chip scale package (CSP) with multimode fibre interface that operates at up to 28 Gbit/s per channel. It specifies the parameters that apply, with clearly defined conditions, severities, and pass/fail criteria. The tests are intended to be run as an initial design verification to prove any product's ability to satisfy the performance standard's requirements.

A product that has been shown to meet all the requirements of a performance standard can be declared as complying with the performance standard, but is then controlled by a quality assurance/quality conformance program.

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