

Finisar[®]

Advanced Optical Components Division

Product Guide

Lasers, Detectors and Passives
for Datacom Applications

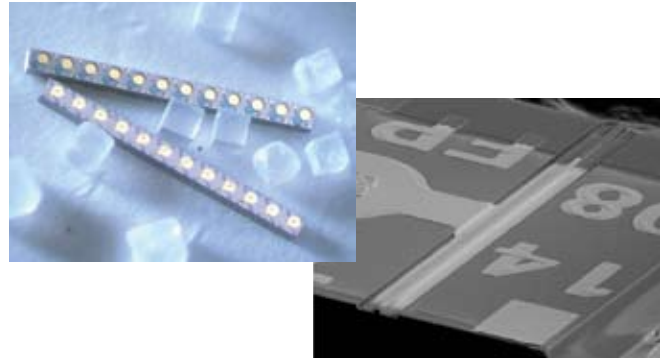


Finisar®

Advanced Optical Components Division

With more than 100 Million optical components operating in the world today, Finisar Advanced Optical Components is the leading supplier of active and passive components for data and telecommunications systems.

- Field Proven Reliability
- Excellent On Time Delivery
- Custom and Standard Products
- Vertically Integrated Operations
- Global Sales Team
- High Volume Manufacturing
- ROHs Compliance for all Products
- Extensive Patent Protection



1310nm ACTIVE COMPONENTS

Finisar offers Fabry-Perot (FP) and Distributed Feedback (DFB) lasers in the 1310nm window. The state-of-the-art lasers are based on proprietary ridge waveguide structures formed in InGaAlAs/InP. The superior material system provides optimal performance for both high speed and high temperature operation. The design, wafer growth and fabrication of the FP and DFB lasers, high-speed PIN detectors and monitor photodiodes takes place in our world-class facility located in Fremont, California. The component assembly operations of these products take place in Ipoh, Malaysia.

850nm ACTIVE COMPONENTS

Long held as the gold standard to which all other VCSELs (Vertical Cavity Surface Emitting Lasers) are measured, Finisar has been producing AlGaAs/GaAs devices since 1996. Finisar has recorded a number of VCSEL “firsts”, including commercialization, reliability understanding, and high volume manufacturing. The design, wafer growth, and fabrication of both VCSELs and high speed PIN photodiodes takes place in our world-class facility in Allen, Texas. Assembly operations are in Ipoh, Malaysia.

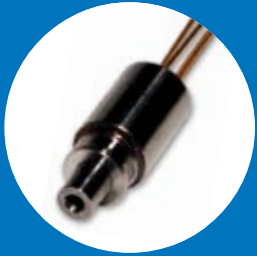
PASSIVE COMPONENTS

Finisar is a premier supplier of passive optical components used in the production of optical circuits and modules. Product offerings range from optical isolators for the module manufacturer to complex interleavers, circulators and MUX/DEMUX products for WDM (Wavelength Division Multiplexing). The design, manufacturing, and assembly operations of all passive optical components takes place in Finisar’s first class manufacturing site in Shanghai, PRC.

APPLICATION SELECTION MATRIX

| Parameter | 850nm VCSELs and Detectors | 1310nm FP Lasers and Detectors | 1310nm DFB Lasers and Detectors |
|--------------|----------------------------|--------------------------------|---------------------------------|
| Speed | 0.1 to 10Gbps* | 0.1 to 10Gbps* | 0.1 to 10Gbps* |
| Distance | 0 to 300m | 0 to 10km | 0 to 80km |
| Fiber Type | MMF, Ribbon | SMF, MMF | SMF |
| Package | TO-46 | TO-56 | TO-56 |
| | SC/LC TOSA/ROSA | SC/LC TOSA/ROSA | SC/LC TOSA/ROSA |
| | Arrays | | |
| Applications | IEEE 802.3 | IEEE 802.3 | IEEE 802.3 |
| | Fibre Channel | Fibre Channel | Fibre Channel |
| | Infiniband | ATM/SONET | ATM/SONET |
| | HDMI/DVI | Analog Video | Analog Video |

* 17Gbps and 25Gbps components in development.



PRODUCT SELECTION MATRIX

| Active Components | | | | | | |
|-------------------------------------|-------------|---------------|------------|------------|----------------|-------------------|
| Part Number | Type | Speed | Distance | Fiber Type | Package | Application |
| DFB-1310-10LR-xx | DFB | 10Gbps | 10km | SMF | SC/LC TOSA | IEEE 802.3ae |
| PIN-1310-10LR-xx | PIN+TIA | 10Gbps | 10km | SMF | SC/LC ROSA | IEEE 802.3ae |
| HFE6x9x-x61 | VCSEL | 10Gbps | 300m | MMF | SC/LC TOSA | IEEE 802.3ae |
| HFD6x8x-4xx | PIN+TIA | 10Gbps | 300m | MMF | SC/LC ROSA | IEEE 802.3ae |
| HFE80xx-xxx | VCSEL Array | 10Gbps | 300m | MMF | DIE | OIF, Infiniband |
| HFD80xx-xxx | PIN Array | 10Gbps | 300m | MMF | DIE | OIF, Infiniband |
| FP-1310-10LRM-xx | FP | 10Gbps | 220m | SMF | SC/LC TOSA | IEEE 802.3aq |
| PIN-1310-10LRM-xx | PIN+TIA | 10Gbps | 220m | SMF | SC/LC ROSA | IEEE 802.3aq |
| FP-1310-8GFC-xx | FP | 8Gbps | 2km | SMF | LC TOSA | Fibre Channel |
| PIN-1310-8GFC-xx | PIN+TIA | 8Gbps | 2km | SMF | LC ROSA | Fibre Channel |
| HFE7192-xxx | VCSEL | 8Gbps | 300m | MMF | LC TOSA | Fibre Channel |
| HFD718x-xxx | PIN+TIA | 8Gbps | 300m | MMF | LC ROSA | Fibre Channel |
| HFE80xx-xxx | VCSEL Array | 5Gbps | 300m | MMF | DIE | OIF, Infiniband |
| HFD80xx-xxx | PIN Array | 5Gbps | 300m | MMF | DIE | OIF, Infiniband |
| HFE4192-58x | VCSEL | 4Gbps | 300m | MMF | LC TOSA | Fibre Channel |
| HFD3180-20x | PIN+TIA | 4Gbps | 300m | MMF | LC ROSA | Fibre Channel |
| FP-1310-4I-xx | FP | 4Gbps | 1.4km | SMF | LC TOSA | Fibre Channel |
| PIN-1310-4I-xx | PIN+TIA | 4Gbps | 1.4km | SMF | LC ROSA | Fibre Channel |
| HFE419x-441 | VCSEL | 2Gbps | 300m | MMF | LC TOSA | Fibre Channel |
| HFE409x-xxx | VCSEL | 2Gbps | 300m | MMF | TO-46 | Fibre Channel |
| HFD3180-10x | PIN+TIA | 2Gbps | 300m | MMF | LC ROSA | Fibre Channel |
| HFE418x-421 | VCSEL | 1.25Gbps | 550m | MMF | LC TOSA | IEEE 802.3z |
| HFE408x-xxx | VCSEL | 1.25Gbps | 550m | MMF | TO-46 | IEEE 802.3z |
| HFD3x8x-10x | PIN+TIA | 1.25Gbps | 550m | MMF | LC ROSA | IEEE 802.3z |
| FP-1310-4I-xx | FP | Analog | 2km | SMF | Pigtail | CATV |
| PIN-1310-4I-xx | PIN | Analog | 2km | SMF | Pigtail | CATV |
| Passive Components - Isolators | | | | | | |
| Part Number | Type | Isolation | Wavelength | Fiber Type | Package | Application |
| Custom | Free Space | Single/Double | 1200-1600 | SMF | Round, Square | Optical Isolation |
| Custom | Receptacle | Single/Double | 1200-1600 | SMF | LC, SC | Optical Isolation |
| Custom | Pigtail | Single/Double | 1200-1600 | SMF | LC, SC, FC, MU | Optical Isolation |
| Passive Components - CWDM MUX/DEMUX | | | | | | |
| Part Number | Type | Channels | Wavelength | Fiber Type | Package | Application |
| FWSF-M/D-1310/CWDM-4-x | Passive | 4 | 1200-1600 | SMF | LC, SC, FC, MU | CWDM Management |
| FWSF-M/D-1310/CWDM-8-x | Passive | 8 | 1200-1600 | SMF | LC, SC, FC, MU | CWDM Management |
| Passive Components - Interleaver | | | | | | |
| Part Number | Type | Spacing | Wavelength | Fiber Type | Package | Application |
| Contact | Passive | 50GHz | 1200-1600 | SMF | LC, SC, FC, MU | DWDM |
| Contact | Passive | 100GHz | 1200-1600 | SMF | LC, SC, FC, MU | DWDM |

"x" denotes several options are available. Most parts are also available in SC or custom packages. Please see www.finisar.com/aoc.php for full part number list and data sheets.

**PRODUCT RELIABILITY
EVERYTIME
OUTSTANDING VALUE
ALL THE TIME**

ABOUT FINISAR

Finisar Corporation is a technology leader for the fiber optic subsystems and network performance test systems. These products enable high speed triple play communications for networking and storage applications over Ethernet Local Area Networks (LANs), Fibre Channel Storage Area Networks (SANs) and Metropolitan Area Networks (MANs)

Finisar has been at the forefront of delivering breakthrough products for the storage and networking industries to meet the global explosion in the world's need for information and bandwidth. These industry leading products include optical components and modules for network equipment vendors, instrument and software for communications designers, products and services for large enterprise storage networks. Finisar has established a vertically integrated business model that includes internal off-shore manufacturing capabilities that allow the company to deliver a broad portfolio of high volume products within critical market windows, with world class quality and reliability. Additionally, Finisar offers a wide range of products, services, and complete solutions for specific markets.

With more than 4,000 employees, Finisar has sales, channel, and support offices worldwide. The Company is headquartered in Sunnyvale, California (USA) with product development and manufacturing facilities located in California, Massachusetts, Texas, Malaysia, China, and Singapore. Finisar is traded on NASDAQ under the symbol FNSR.

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For further product information or sales inquiries,
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**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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