RP Photonics Buyer‘s Guide

and the

Encyclopedia of Laser Physics and Technology

The photonics industry’s leading source of technical, product and supplier information.

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The RP Photonics Website

ww.rp-photonics.com

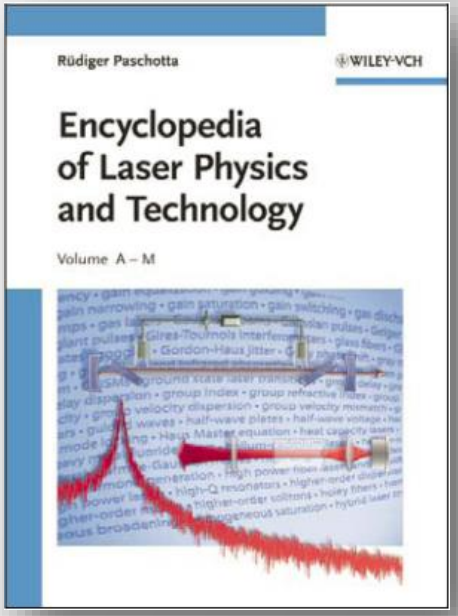
contains

- the famous **Encyclopedia of Laser Physics and Technology**, a huge high-quality information source
- the **RP Photonics Buyer‘s Guide**, listing many photonics products and suppliers

and therefore

- has a **very high reputation** in the field and
- is the **most popular website on laser technology!**

This means that **photonics suppliers *must* be there** to promote their products!



In 2008, the encyclopedia also appeared as a book.

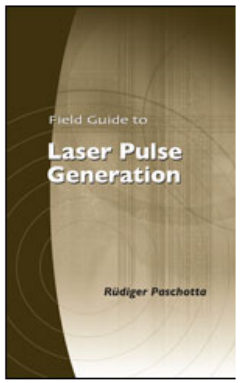
RP PHOTONICS ENCYCLOPEDIA ... combined with a great BUYER'S GUIDE!

Virtual Library

Field Guide on Laser Pulse Generation

Learn a lot on pulse generation with lasers:

- basic on optical pulses
- Q switching
- cavity dumping
- gain switching
- mode locking
- amplification of ultrashort pulses
- pulse characterization



Enjoy a compact booklet, authored by a top expert on laser pulses.

HOME | SPOTLIGHT | QUIZ
SEARCH | CATEGORIES | GLOSSARY

A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z

Article keyword
Note: this box searches only for keywords in the titles. For full-text searches, use our search page.

Ultrafast Lasers

Definition: lasers emitting ultrashort pulses
German: Ultrakurzpulslaser
Categories: lasers, light pulses
How to cite the article; suggest additional literature

The term *ultrafast lasers* is often used for mode-locked lasers emitting ultrashort pulses, i.e. pulses with durations of femtoseconds or picoseconds (typically, below 100 ps). A more precise term is actually *ultrashort pulse lasers*; such lasers utilize ultrafast processes, but are not ultrafast themselves. ...ays mode-locked lasers, ...ning can also provide ult...

comprehensive encyclopedia article

Tupes of Ultrafast Lasers

Suppliers for ultrafast lasers

The RP Photonics Buyer's Guide contains 45 suppliers for ultrafast lasers.

Among them:

NKT Photonics

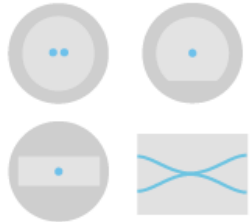
rpmc

TOPTICA PHOTONICS

with one click, get to the corresponding buyer's guide page

RP Fiber Power – the versatile Fiber Optics Software

Fiber Couplers, Double-clad Fibers, Multicore Fibers, ...



Simulate pump absorption in double-clad fibers, study beam propagation in fiber couplers, light propagation in tapered fibers, analyze the impact of bending, cross-saturation effects in amplifiers, leaky modes, etc.

< U >

...ription
...es!
...otation!

Web Traffic

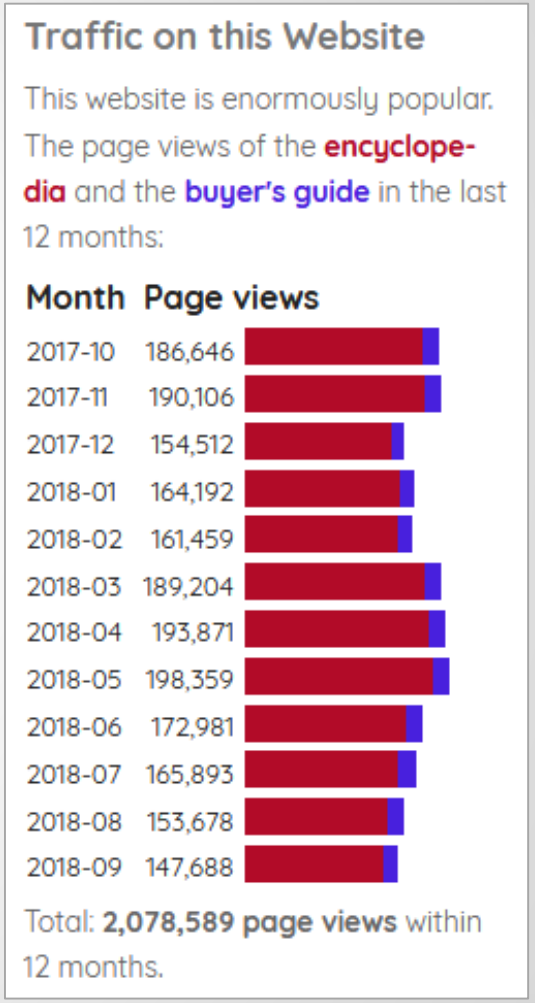
The RP Photonics website is the probably **most popular website for laser technology**:

- **far over 50,000 unique visitors per month**
- **around 150,000 – 200,000 page views** on the encyclopedia and buyer's guide pages
- **many thousands of referrals to supplier websites** per month

We regularly publish traffic data:

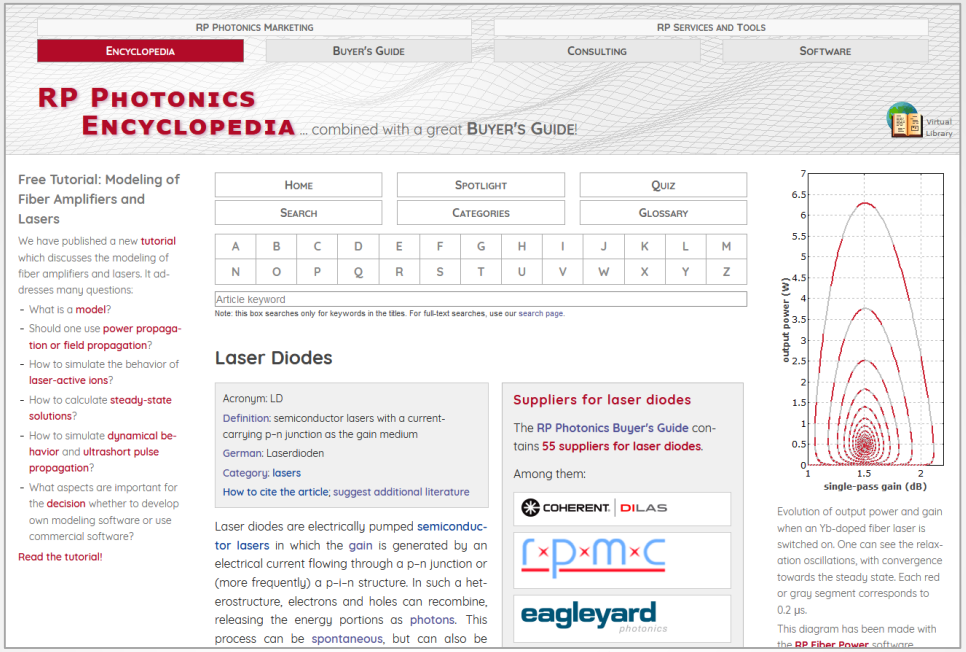
www.rp-photonics.com/bg_statistics.html

Note: We publish data in more detail than others, and we filter the data quite strictly to eliminate artifacts, e.g. from various robot activities.



Why is That Website So Popular?

Returning Visitors
using high-quality encyclopedia articles in their daily work



The crucial asset of the **RP Photonics** website:
a huge amount of **high-quality content**, open for free use by anyone and serving the laser community worldwide.

thousands of websites linking to RP Photonics

Google
and other search engines

Search engines see the content and the links
→ **excellent ranking!**

Superior Value for Users

is the key for the high popularity of our website:

- detailed **high quality technical content**
  (who else has got such a laser encyclopedia?)
- **high quality supplier data**
  (e.g., we allow product listings only when these products appear on the supplier's own website)
  → don't frustrate users with inaccurate data
- **clear page layout**, not cluttered with ads
- **high-performance web server**, delivering the pages fast
- respecting the users' **privacy** (https://www.rp-photonics.com/privacy.html)
  (no user tracking, no cookies, encrypted transmission, …)

We are used to work hard …

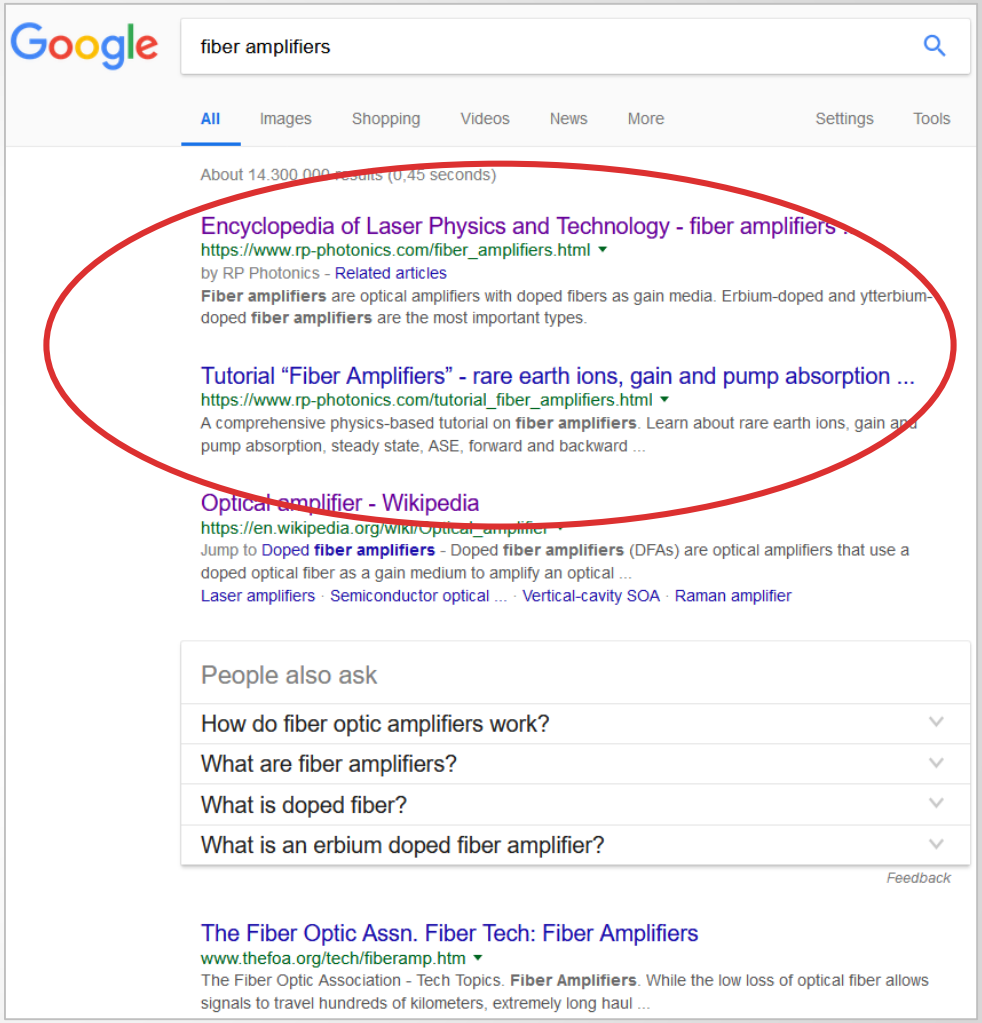
Search Engine Ranking

Our **search engine ranking** is extraordinary because Google and other search engines find the **comprehensive content and the many inbound links**.

Try yourself searching for

- technical details: femtosecond laser, fiber amplifiers, …
- scientific keywords: laser noise, laser pulse amplification, …
- suppliers: buy fiber laser, suppliers for nonlinear crystals, …

and you will see that RP Photonics ranks much higher than any other website.

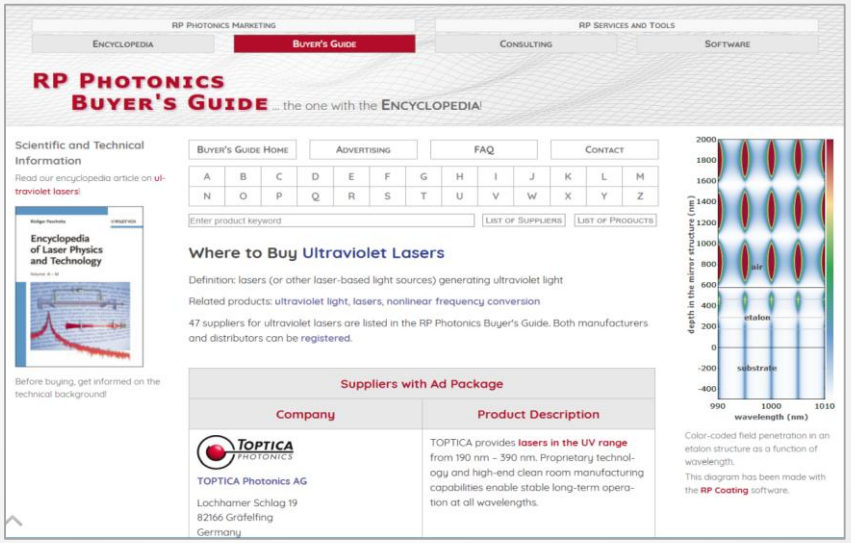


How Do People Find Photonics Suppliers?

search for products with **Google** or other search engines

directly go for the **best buyer's guide**

search for technical information with **Google** or other search engines



Users get reliable technical information, overview on suppliers, etc.

Don't consider traffic numbers only – **branding is also important!**

supplier websites

Referral traffic can be maximized with our **ad package**!

Advertising with RP Photonics

Your options:

- free: basic company profile and basic product entries for up to 10 products
- **ad package** :
  - allowing for **any number of products** and **much improved company profile and product entries**
    → the simple way to **generate far more leads!**
  - included: one **promotion** for **white paper** or **video,**
    placed in an encyclopedia article → **perfectly targeted!**
  - also included: **skyscraper banner ad** displayed on buyer's guide pages
    (get a certain display probability for each buyer's guide page)

Ad Package

- One price for a bunch of essential improvements:
  - **much improved company profile:**
    company description, large image, trade show participation, …
  - allowing for **any number of products**
  - **far better visibility of product entries**
    → the simple way to generate more leads:
    just take the ad package, provide your company description, product descriptions and images, and you are done!
- included: one **white paper promotion**
- included: one **skyscraper banner ad**
  (get a certain display probability for each page)

Enhanced Company Profile

With any **ad package** you get an enhanced company profile:

- social media links
- quality certificates
- company description
- trade show participation
- distributor information

Also, it is far more visible in the alphabetical list of all suppliers.

Company profile:

DILAS Diodenlaser GmbH

back

DILAS Diodenlaser GmbH
Galileo-Galilei-Strasse 10
55129 Mainz-Hechtsheim
Germany

DILAS
The diode laser company.

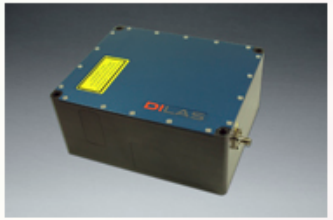
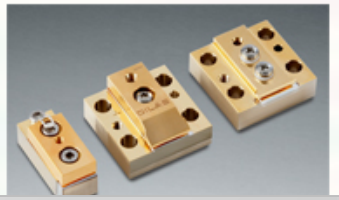
Edit profile data

Tel.:	+49 6131 9 22 60
Fax:	+49 6131 9 22 62 57
E-mail:	sales@dilas.com
Website:	www.dilas.com
Social media:	Facebook, LinkedIn, Twitter
Quality certification:	ISO-9001:2008

Company Description

DILAS, the diode laser company, manufactures high-power diode laser components and systems in a wide range of output powers and wavelengths including fiber-coupled, direct beam and integrated solutions.

Products

Product	Description (only for enhanced product entries)
blue lasers	**Blue lasers** with up to 25 W output power from a multi-single emitter based 450 nm, 400-micron, 0.22 NA, fiber-coupled module developed for cinema projection and medical applications. 
diode lasers	**design of diode laser bars** covering a wavelength spectrum from 450 nm to 2200 nm. 

Alternative Suppliers

In the company profile of a supplier having only basic entries, *alternative suppliers* can appear.

If you have any **ad package**:

- No alternative suppliers will appear in your company profile. The right column is then reserved for product descriptions (associated with enhanced product entries, see later).
- Your company (with links to your company profile) can appear in profiles of others.

Frankfurt Laser Company back

Frankfurt Laser Company
An den 30 Morgen 13
61381 Friedrichsdorf
Germany

Edit profile data

Tel.: +49 6172 27 97 80
Fax: +49 6172 2 79 78 10
Website: www.frlaserco.com

Products

Product	Alternative Suppliers
beam collimators	
beam shapers	
beam splitters	
blue lasers	DILAS Diodenlaser, Laser Quantum
diode-pumped lasers	EKSPLA, Laser Quantum, Laserglow
distributed feedback lasers	eagleyard Photonics, NKT Photonics
fiber lasers	EKSPLA, NKT Photonics
fiber optics	
fiber-coupled diode lasers (... and related equipment)	DILAS Diodenlaser, eagleyard Photonics
fibers (optical ...)	NKT Photonics

Alphabetical List of All Suppliers

www.rp-photonics.com/bg_suppliers.html

Companies having an ad package are shown with logo and bold letters

D	
DataRay Inc.	6 products
Dausinger & Giesen GmbH	10 products
Dayoptics, Inc.	10 products
Deep Photonics	10 products
Del Mar Photonics, Inc.	10 products
Deposition Sciences, Inc.	10 products
DIAMOND GmbH	8 products
Diamond SA	10 products
DiCon Fiberoptics, Inc.	8 products
DILAS Diodenlaser GmbH	11 products
Dimetix AG	2 products
Directed Light Inc.	4 products
DirectPhotonics Industries GmbH	9 products
Discovery Semiconductors, Inc.	7 products
DK Photonics Technology Co., Ltd.	10 products
DNA Equipment, Inc.	8 products
Dolan-Jenner Industries	8 products
Doric Lenses Inc.	10 products
DoroTEK GmbH	10 products
DPM Photonics	38 products
DPSS Lasers Inc.	9 products
H+P SPECTROSCOPY ¦ Dr. Hoerlein + Partner	5 products

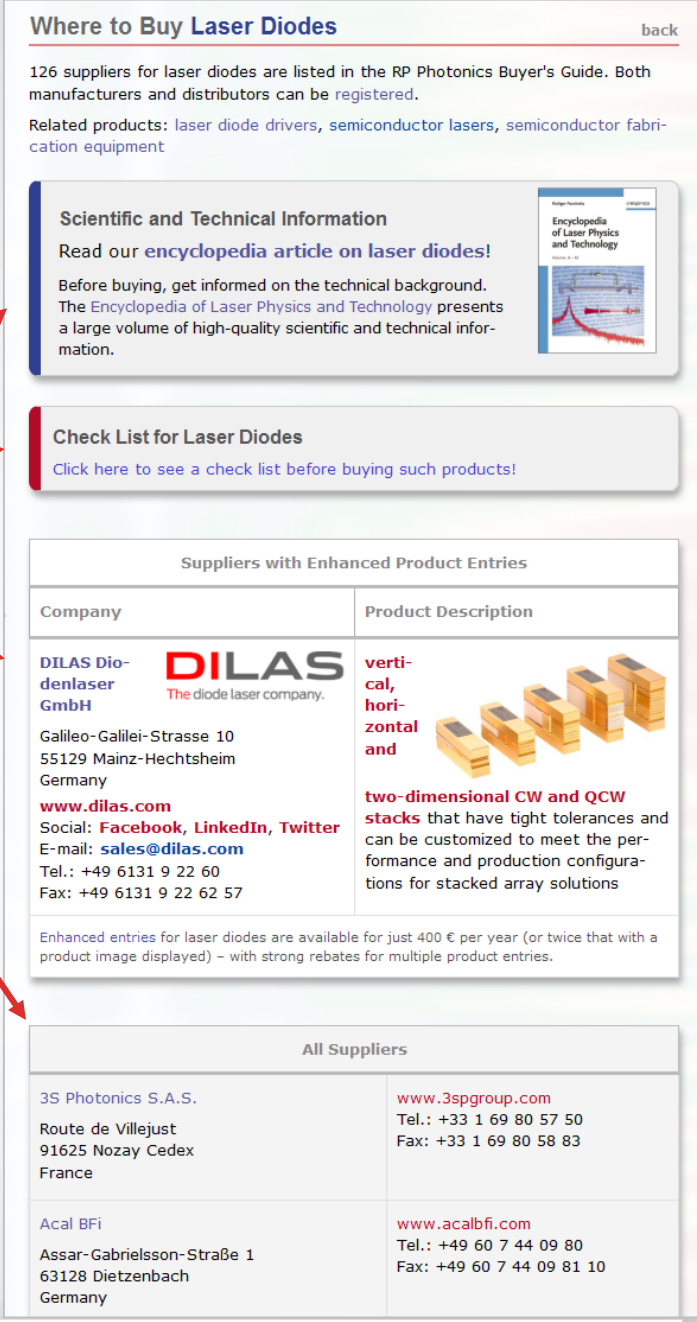
Also, customers with ad package can have their participation in upcoming **trade shows** displayed – here, in their company profile and in all of their enhanced product entries!

For major trade shows, we even enter that information ourselves.

Suppliers for a Product

For every product (there are >550), there is a list of suppliers – see the example for **laser diodes**.

- Presents a link to an encyclopedia article and a useful checklist (as far as available).
- First, list of suppliers with **ad package**.
- Then, **alphabetical list of all suppliers** offering that product.
- **Ad package boosts visibility of all products:**
  - product description, product image, logo, trade show participation
  - additional display on related **encyclopedia article page**, if available!



Where to Buy Laser Diodes back

126 suppliers for laser diodes are listed in the RP Photonics Buyer's Guide. Both manufacturers and distributors can be registered.

Related products: laser diode drivers, semiconductor lasers, semiconductor fabrication equipment

Scientific and Technical Information

Read our encyclopedia article on laser diodes!

Before buying, get informed on the technical background. The Encyclopedia of Laser Physics and Technology presents a large volume of high-quality scientific and technical information.

Check List for Laser Diodes

Click here to see a check list before buying such products!

Suppliers with Enhanced Product Entries

Company	Product Description
DILAS Diodenlaser GmbH Galileo-Galilei-Strasse 10 55129 Mainz-Hechtsheim Germany www.dilas.com Social: Facebook, LinkedIn, Twitter E-mail: sales@dilas.com Tel.: +49 6131 9 22 60 Fax: +49 6131 9 22 62 57	vertical, horizontal and two-dimensional CW and QCW stacks that have tight tolerances and can be customized to meet the performance and production configurations for stacked array solutions

Enhanced entries for laser diodes are available for just 400 € per year (or twice that with a product image displayed) – with strong rebates for multiple product entries.

All Suppliers

3S Photonics S.A.S. Route de Villejust 91625 Nozay Cedex France	www.3spgroup.com Tel.: +33 1 69 80 57 50 Fax: +33 1 69 80 58 83
Acal BFi Assar-Gabrielsson-Straße 1 63128 Dietzenbach Germany	www.acalbfi.com Tel.: +49 60 7 44 09 80 Fax: +49 60 7 44 09 81 10

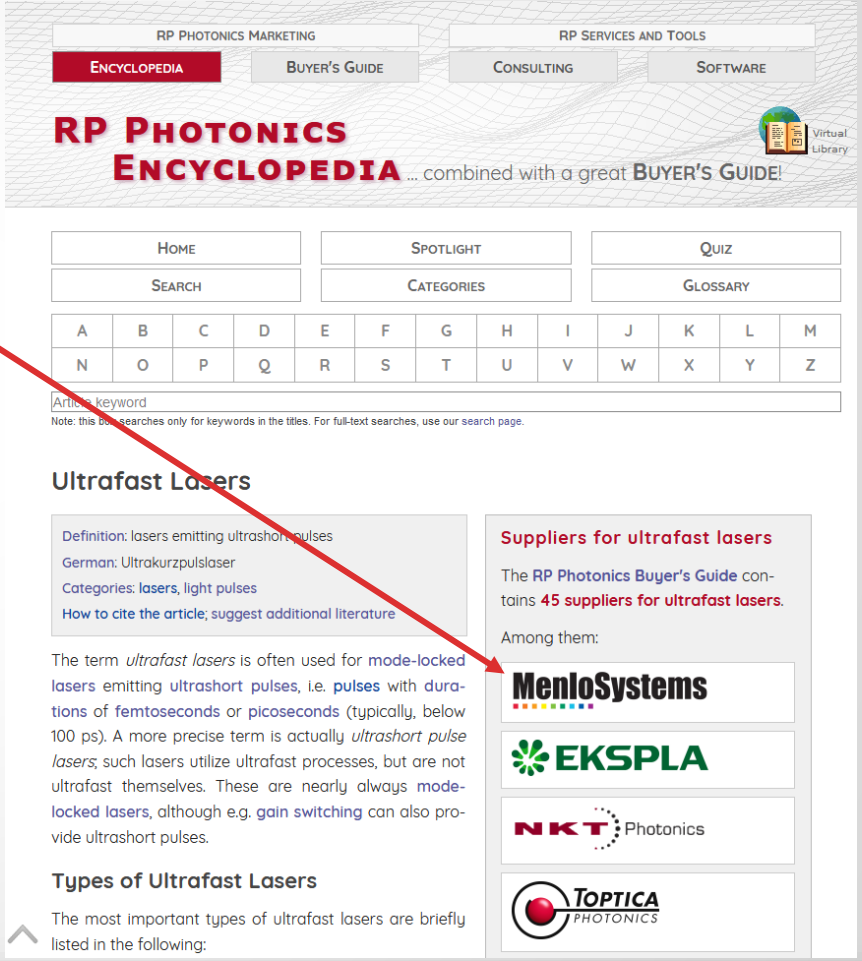
Display in the Encyclopedia

- For each product of a supplier with ad package, an advertisement also appears in a box within the corresponding **encyclopedia article**, if there is one.
- In addition, the logo, product description and product image appear at the end of the encyclopedia article.

Note: encyclopedia articles get much more traffic than supplier listings!

(On most days, people are searching for technical information!)

Result: **great branding effect!**



Price of Ad Packages

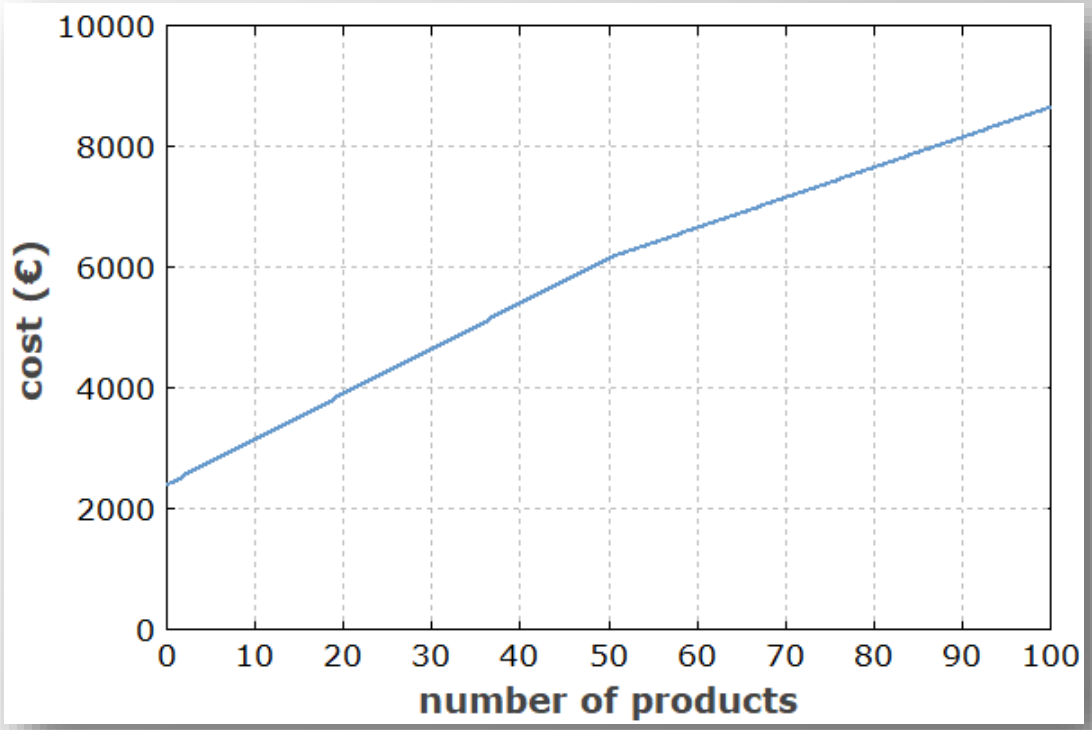
Simple rules for the cost per year:

- base price: 2400 €
- add 75 € for each product (up to 50)
- add 50 € for each further product (beyond 50)

Examples:

- 20 products: 3900 €
- 50 products: 6150 €
- 100 products: 8650 €

Pay extra only for special additions like additional white paper or video promotions (one is included).

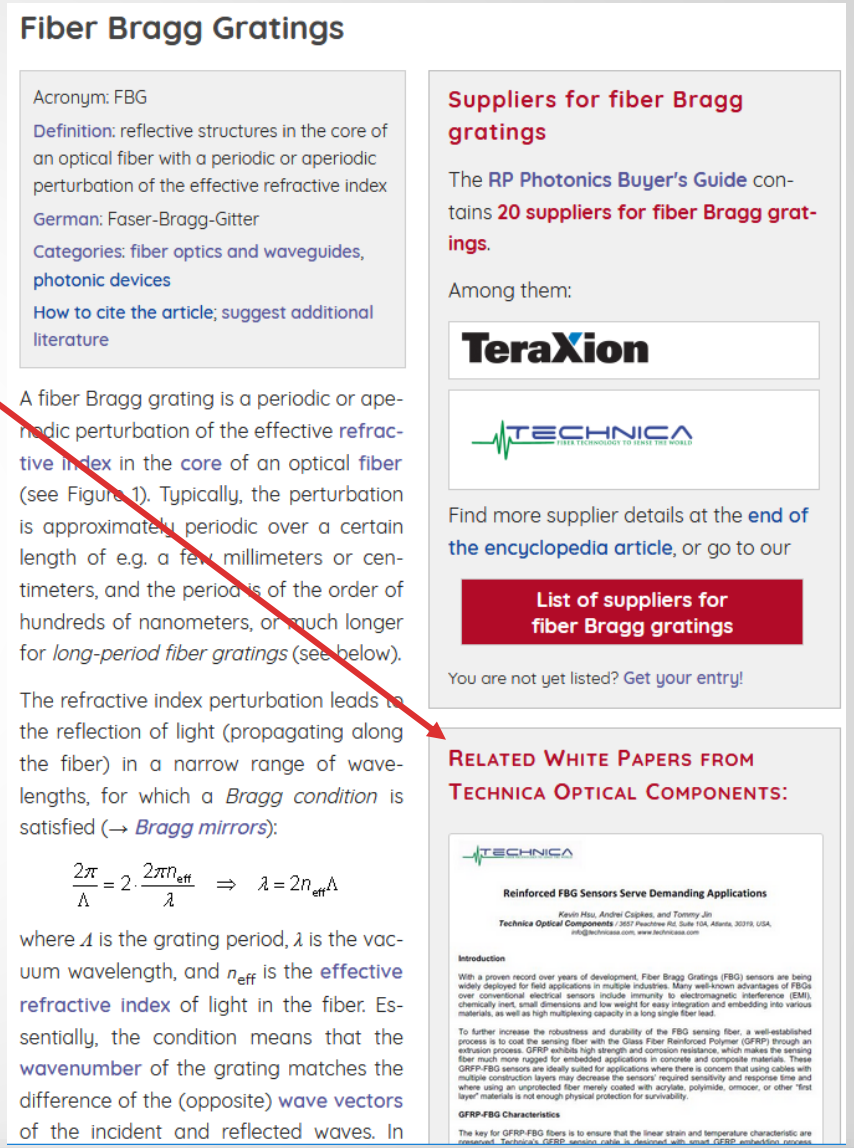


Promotion of White Papers and Videos

- Get your **white paper** shown and offered for download **in an encyclopedia article on the corresponding topic!**
- Similarly, promote your **videos**.

That way you directly reach readers which are interested in a certain topic!

We graphically display the preview of your document or video in the encyclopedia article. Users can click on it to download the paper or go to the page with the video.



Fiber Bragg Gratings

Acronym: FBG

Definition: reflective structures in the core of an optical fiber with a periodic or aperiodic perturbation of the effective refractive index

German: Faser-Bragg-Gitter

Categories: fiber optics and waveguides, photonic devices

How to cite the article; suggest additional literature

A fiber Bragg grating is a periodic or aperiodic perturbation of the effective refractive index in the core of an optical fiber (see Figure 1). Typically, the perturbation is approximately periodic over a certain length of e.g. a few millimeters or centimeters, and the period is of the order of hundreds of nanometers, or much longer for *long-period fiber gratings* (see below).

The refractive index perturbation leads to the reflection of light (propagating along the fiber) in a narrow range of wavelengths, for which a *Bragg condition* is satisfied (→ *Bragg mirrors*):

$$\frac{2\pi}{\Lambda} = 2 \cdot \frac{2\pi n_{\text{eff}}}{\lambda} \quad \Rightarrow \quad \lambda = 2 n_{\text{eff}} \Lambda$$

where Λ is the grating period, λ is the vacuum wavelength, and n_{eff} is the effective refractive index of light in the fiber. Essentially, the condition means that the wavenumber of the grating matches the difference of the (opposite) wave vectors of the incident and reflected waves. In

Suppliers for fiber Bragg gratings

The RP Photonics Buyer's Guide contains **20 suppliers for fiber Bragg gratings**.

Among them:

TeraXion

TECHNICA

Find more supplier details at the end of the encyclopedia article, or go to our

List of suppliers for fiber Bragg gratings

You are not yet listed? Get your entry!

Related White Papers from Technica Optical Components:

TECHNICA

Reinforced FBG Sensors Serve Demanding Applications

Kevin Hsu, Andrei Csipkes, and Tommy Jin
Technica Optical Components / 3657 Peachtree Rd, Suite 104, Atlanta, 30319, USA,
info@technicaoa.com, www.technicaoa.com

Introduction

With a proven record over years of development, Fiber Bragg Gratings (FBG) sensors are being widely deployed for field applications in multiple industries. Many well-known advantages of FBGs over conventional electrical sensors include immunity to electromagnetic interference (EMI), chemically inert, small dimensions and low weight for easy integration and embedding into various materials, as well as high multiplexing capacity in a long single fiber lead.

To further increase the robustness and durability of the FBG sensing fiber, a well-established process is to coat the sensing fiber with the Glass Fiber Reinforced Polymer (GFRP) through an extrusion process. GFRP exhibits high strength and corrosion resistance, which makes the sensing fiber much more rugged for embedded applications in concrete and composite materials. These GFRP-FBG sensors are ideally suited for applications where there is concern that using cables with multiple construction layers may decrease the sensors' required sensitivity and response time and where using an unprotected fiber merely coated with acrylate, polyimide, ormocer, or other "first layer" materials is not enough physical protection for survivability.

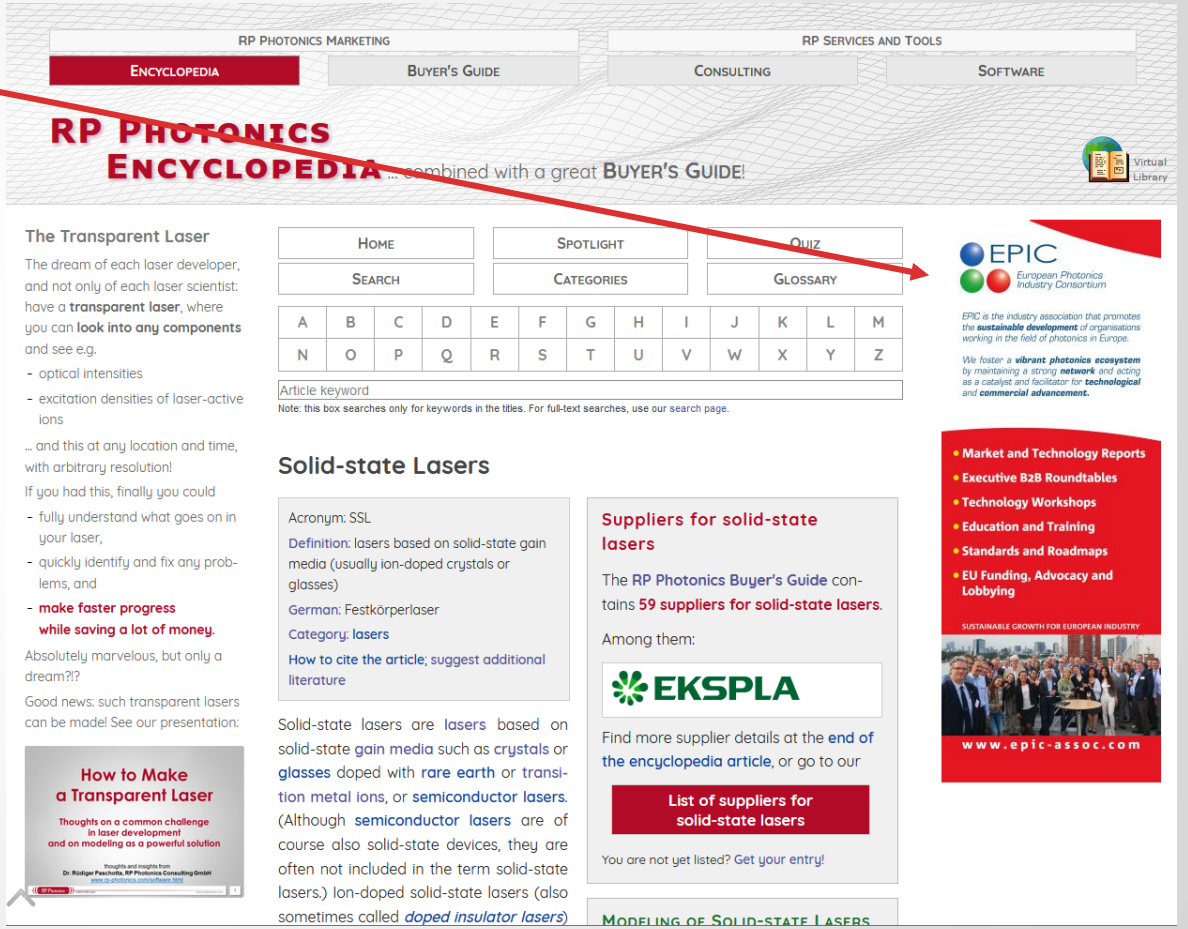
GFRP-FBG Characteristics

The key for GFRP-FBG fibers is to ensure that the linear strain and temperature characteristic are preserved. Technica's GFRP sensing cable is designed with smart GFRP embedding process

Super-wide Skyscraper Banners

Included in your ad package: **super-wide skyscraper banner** displayed on buyer's guide pages with a certain display probability.

Extra on request: additional banner for **special promotions**, **branding** etc.: get great visibility!



How to Get Started

- If your company doesn't have an entry on the RP Photonics website yet, register here: https://www.rp-photonics.com/new.html
- If you have an entry already, go to your company profile and click on the button **"Edit profile data"**.
  (To find your company profile, go to the buyer's guide, click on **List of Suppliers**, find your company in the list.)
- Fill out the form and finally click on "**Send the data to RP Photonics**".
  We will then review the information and enter it into the buyer's guide.
  If you have selected an ad package, we will respond with the details (e.g. terms & conditions) and ask you to confirm that. If you confirm, we will send you an invoice. You do not need to sign a contract.

Excellent Service

- Friendly, no-hassle telephone and e-mail support to clarify any issues.
- If you like, we try to collect the product descriptions and images from your website! So you only need to check whether everything is correct.
- We are happy to update e.g. your product descriptions whenever required.
- We regularly check for broken links e.g. in your product descriptions.
- We even search for exhibitor listings of trade shows and enter that information for you.
- We make everything **as easy as possible** for you:
  - clear explanations
  - no contract to sign
  - easy invoicing and payments

Get It Done!

You have now realized:

- **RP Photonics** operates the **leading online information source** in laser technology,
  with extraordinary search engine ranking and traffic data
  → the place where the experts are spending their time!
- We offer you **the best online advertising options in photonics: high return on investment** and **excellent service**.

So contact us immediately

and let RP Photonics support your sales!

www.rp-photonics.com/bg_advertising.html