

High Refractive Index Ball Lens Caps

Product Information

Many optical data communication applications must transmit and receive signals at extremely high levels of precision. Hence, optimum light efficiency is necessary.

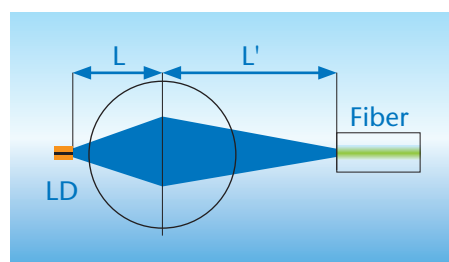
SCHOTT Electronic Packaging offers a wide range of standard glass materials sealed in metal caps. In addition, SCHOTT can also leverage upon its in-house expertise to provide customers with customized glass types to suit their unique requirements relating to specifications such as refractive indices and ball lens diameters.

N-LaSF46B helps to reduce size and power requirements **NEW** of optical sub-assembly

The new N-LaSF46B ball lens has a high refractive index and hence, better coupling efficiency and shorter focal length. These advantages help to reduce the power requirements and overall size of the optical sub-assembly.



Application: TO Caps



Optical sub-assembly

Technical Information	
Lens material:	N-BK7, N-LaSF44, N-LaSF46B, LaSF35 (optional: Sapphire, MK7, TAF3)
Solder seal:	RoHS compliant
Outline:	TO 56, TO 46, TO 52, TO 38, TO 39, TO 8, TO 18, customer design
Metal Cap:	NiFe 52, SF20T, NiFe 46 (Optional Finishing: Ni/Ni + Au)
Coatings:	AR@ 850 nm, 1310 nm, 1550 nm, Broadband coating 1250-1620 nm, custom coatings possible, Beam Splitter coating available
Height tolerance:	Machined Body: +/- 0.015, Deep Drawn Metal Body: +/- 0.025

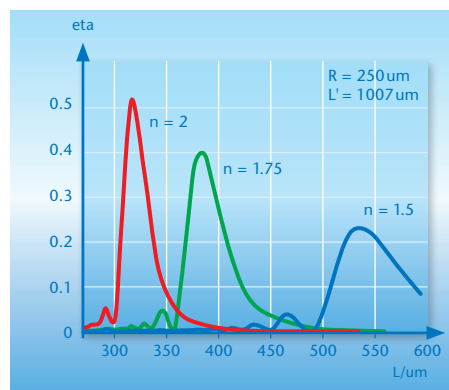
Application

- Fibre Channel
- Other TOSA and ROSA designs
- FTTx-BiDi/Triplexer
- Gigabit Ethernet

For more information:

Electronic Packaging
SCHOTT AG
 Christoph-Dorner-Strasse 29
 84028 Landshut, Germany

Phone: +49 (0)871/826-329
 Fax: +49 (0)3641/288-89090
 Tanja.Wituschek@schott.com
 www.schott.com/epackaging



Graph of coupling efficiency vs. refractive index

nd	Glass type
1.5	N-BK 7
1.746	Sapphire
1.78	N-LaSF 44
1.90	N-LaSF 46B
2.02	LASF 35

Refractive index

SCHOTT
 glass made of ideas