

# ams microoptics for telecommunications

\* standard and customized \*

**FOCUS ON LIGHT!**

[ams]



光技術をサポートする  
**株式会社オプトサイエンス**

<http://www.optoscience.com>

東京本社 〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング  
TEL:03(3356)1064 FAX:03(3356)3466 E-mail:info@optoscience.com  
大阪支店 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館  
TEL:06(6305)2064 FAX:06(6305)1030 E-mail:osk@optoscience.com  
名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル  
TEL:052(569)6064 FAX:052(569)8064 E-mail:ngo@optoscience.com

## aps microlenses for telecommunications

### Refractive microoptic components (lines & arrays)

aps offers refractive 1- and 2-side microlens arrays (in 1D- and 2D-performance) for optical telecommunications (beam collimation and focusing of single- and multi-emitter diode lasers and VCSELs, fibre input/output, etc.).

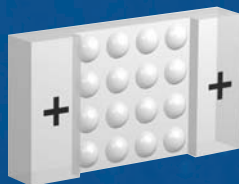
Our photolithography based production technology ensures highest positioning preciseness of microlenses in the array and the microlens optical quality of not worse than  $\lambda/4$ . Our microlens arrays allow for the extremely low insertion losses in multichannel all-optical switchers ( 0.2dB on lens, less than 2dB in channel) or in 8-channel VOAs (0.2dB on lens, 0.8 dB in channel).

The wafer based solution of arrays fabrication allows for easy intergration of the microlens arrays into the MEMS and MOEMS.

The arrays are available in different optical materials like fused silica, glass or plastics and cover a wide range of optical parameters.



Nr. 3



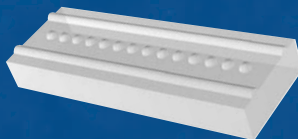
Nr. 4



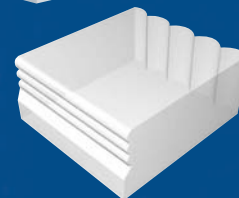
Nr. 12



Nr. 13



Nr. 14



Nr. 16

Nr.	Product type	Glass Type	Lens diameter, mm	Pitch, mm	Radius R, mm	Size, mm
1	APO-GT-P2000(D1900)-AR4.2	STiH-53	1,9	2	AR=4.2	25x25
2	APO-GT-P1800-R2.0-8.0	STiH-53	1,8	1,8	AR=2.0-8.0	17x17
3	AP(H)-Q-P1500(D1416)-R2.3	Fused Silica	1,41	1,5	R=2.3	51x61 (15x24)
4	APO-GB(GT)-P1250(D920)-R1.7	BK-7(TiH53)	0,92	1,25	R=1.7	15x15
5	APO-GT-P1250(D750)-R1.6	STiH-53	0,75	1,25	R=1.6	14.7x14.7
6	APO-GB-P1200(D1100)-R1.8	BK-7	1,1	1,2	R=1.8	6x6 (Lenses)
7	APO-GB-P1000(D950)-R2.0	BK-7	0,95	1	R=2.0	45x35
8	APO-GT-P818(D150)-R0.15	STiH-53	0,15	0,818	R=0.15	45x35
9	APO-GT-P750(D750)-AR0,65	STiH-53	0,75	0,75	AR=0,65	26x26 (max)
10	APO-Q-P500(D500)-AR0.58	Fused Silica	0,5	0,5	AR=0.58	60 x 60
11	LPL-GT-P1100-AR0,66	STiH-53	1,1	1,1	AR=0,66	16 Lenses
12	LP3-Q-P1000 (D100)-R0.12	Fused Silica	0,1	1.0	R=0.12	3 Lenses
13	LPZ-Q-P1000xP1760(D540)-R0.62	Fused Silica	0,54	1x1,76	R=0.62	64 Lenses
14	LPL-Q-P750 (D420)-AR0.75	Fused Silica	0,42	0,75	AR=0,75	64 Lenses
15	LPL-Q-P250 (D235)-R0.34	Fused Silica	0,235	0,25	R=0.34	48 Lenses
16	SPC-GT-D250-AR0.15/APC-P700-AR0.88	STiH-53	0,250/0,700	0,250/0,700	AR=0.15/AR.88	3.3x1.8x3.5