ARSENAL
Special Device Production State Enterprise

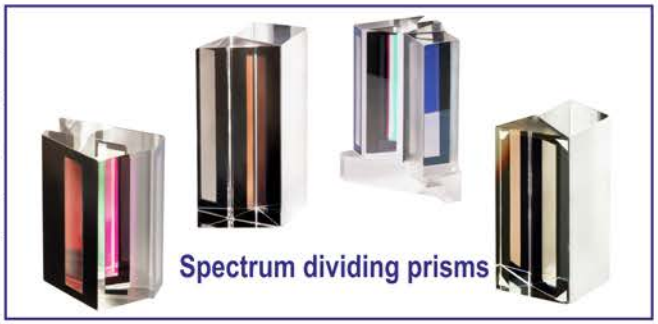
FILTERS, SPECTRUM DIVIDERS, POLARIZERS

OPTICAL FILTERS:

Parameter description	*Spectral range, μm*				
	0.2…0.4	0.4…1.2	1.2…2.0	2.0…8.0	8.0…14.0
Transmission in bandwidth center T_0, %	> 30	> 60	> 60	> 55	> 45
Bandwidth relative width $\Delta\lambda_{0.5} / \lambda_0$, %	1.5…6.5	1.5…40	2…35	2…30	2…30
Curve form factor $\Delta\lambda_{0.1} / \Delta\lambda_{0.5}$	1.3…3				
Transmission in blocking area T_{min}, %	0.1				
Diameter, mm	8…30				

SPECTRUM DIVIDERS:

Spectral range, nm:	
– working	350...3500
– assignable	< 0.3 λ_{max}
Max. reflectivity factor, %	R > 99
R:T ratio	1:100…100:1
Covered surface linear dimensions, mm	5…60



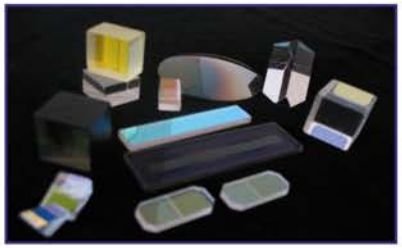
Spectrum dividing prisms

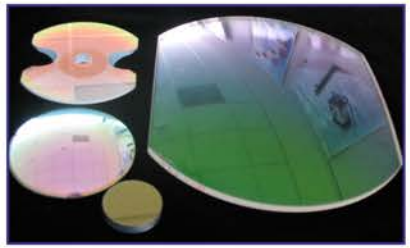
POLARIZERS:

Degree of polarization of transmitted radiation	P > 99.9%
Transmission factor of polarized radiation «P»-component	T_P > 97%
Reflectivity factor of polarized radiation «S»-component	R_S > 96%
Angular aperture	2…3°

ANTIREFLECTION COATINGS:

Spectral region	UV, visible, IR
Reflectivity factor for selective coatings in area R_{min}, %	< 0.01%
Reflectivity factor for achromatic antireflection coatings: – in UV and visible region, % – in IR region, %	 < 0.1 < 1.5
Covered surface linear dimensions, mm	5…60





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