


1D Collimator Arrays

Typically, our fiber collimators arrays consist of lens arrays and fibers arrays, resulting in polished optical fibers inserted and glued together into an angled silicon V-groove.

Collimators come assembled for a specific wavelength range, number of fibers and fiber type. A new optical design and assembly technique provide perfect collimation of optical fibers while an angled ferrule/lens interface reduces back-reflection.

Fiber collimators arrays may be used in collimation of light in DWDMs, fiberoptic switches, attenuators, optical isolators etc.

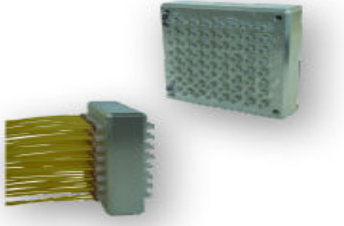
WEBCODE:	D163-xxx		
DRAWING			
			
SPECIFICATIONS	SYMBOL	VALUE	
Operation Wavelength	λ_0	1550 nm	
Number of fibers / lenses	N	2 - 4 - 8 - 16 - 24 - 32 - 48	
Pitch between fibers / lenses	P	min 1.0 mm	
Polishing angle	A	8°	
Height	H	2.0 mm	
Width	W		
Length	L	15 mm	
Edge to first fiber distance	E		
Insertion Loss		< 0.5 dB	
Back-Reflection		< -55 dB	
Pointing Accuracy		< 0.05°	
Fiber Type		SMF28	
Fiber Length		1 meter	
Fiber Jacket		900 μ m tight or loos jacket 3 mm protective jacket	
Fiber Connector		FC/APC	
Operating Temperature			
Storage Temperature			
AR coating		R > 0.5% on lens surface	
NOTE		All specifications are customized on request	

2D Collimator Arrays

Typically, our fiber collimators arrays consist of lens arrays and fibers arrays, resulting in polished optical fibers inserted and glued together into an angled silicon V-groove.

Collimators come assembled for a specific wavelength range, number of fibers and fiber type. A new optical design and assembly technique provide perfect collimation of optical fibers while an angled ferrule/lens interface reduces back-reflection.

Fiber collimators arrays may be used in collimation of light in DWDMs, fiberoptic switches, attenuators, optical isolators etc.

WEBCODE:		D180-xxx	
DRAWING			
			
SPECIFICATIONS	SYMBOL	VALUE	
Operation Wavelength	λ_0	1550 nm	
Number of fibers / lenses	N	2 x 2 - 4 x 4 - 8 x 8	
Pitch between fibers / lenses	P	min 4.0 mm	
Polishing angle	A	8°	
Height	H		
Width	W		
Length	L		
Insertion Loss	I.L.	< 0.5 dB	
Back-Reflection	B.R.	< - 55 dB	
Pointing Accuracy	θ	< 0.05°	
Fiber Type		SMF28	
Fiber Length		1 meter	
Fiber Jacket		900 μ m buffer	
Fiber Connector		FC/APC	
Operating Temperature			
Storage Temperature			
AR coating		R > 0.5% on lens surface	
NOTE		All specifications are customized on request	