

Multi-function Optical System

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The TC-01 heatsink (Active control				
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Drawings				
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Ø Multi-function Optical System Ø				
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Isolator Specifications				
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Ø Free Space Faraday Isolator				
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Model	C-HP-3-405	C-HP-2-532	C-HP-3-633	C-HP-2.3-785
Center Wavelength	405nm	532nm	633nm	785nm
Operating Wavelength Range	+/- 10nm	+/- 10nm	+/- 10nm	+/- 10nm
Peak Transmission	>90%	>93%	>93%	>93%
Clear Aperture	3	2	3	2.3
Isolation	Ø25db	Ø25db	Ø25db	Ø25db
Damage Threshold	10J/cm 2 @ 10ns	10J/cm 2 @ 10ns	10J/cm 2 @ 10ns	10J/cm 2 @ 10ns
Storage Temperature	20~70 Ø	20~70 Ø	20~70 Ø	20~70 Ø
Operating Temperature	10~30Ø	10~30Ø	10~30Ø	10~30Ø
Aperture Diameter	4.0mm			
Typical Beam Diameter	2.0mm			
Operating Frequency Range	0-10Hz			
Maximum Laser Power	<3W			
Rise Time	~8ms			
Fall Time	~8ms			
Delay d	~18ms			
Operating Temperature	15-40Ø			
External Modulation	TTL			
Drive Voltage	5VDC/ 12VDC			
Wavelength	450-700nm			
Optical power	Typical <1W (@1.0mm)			
Transmission	93%			
Center frequency	100MHz			
Diffraction efficiency	80%			
Active aperture	1.0mm			

Extinction ratio	Ø 1000:1
Pulse repetition frequency	4MHz
RF power	1.2W
Input impedance	50 Ø
Controller drive voltage	24VDC
External modulation	TTL/Analog