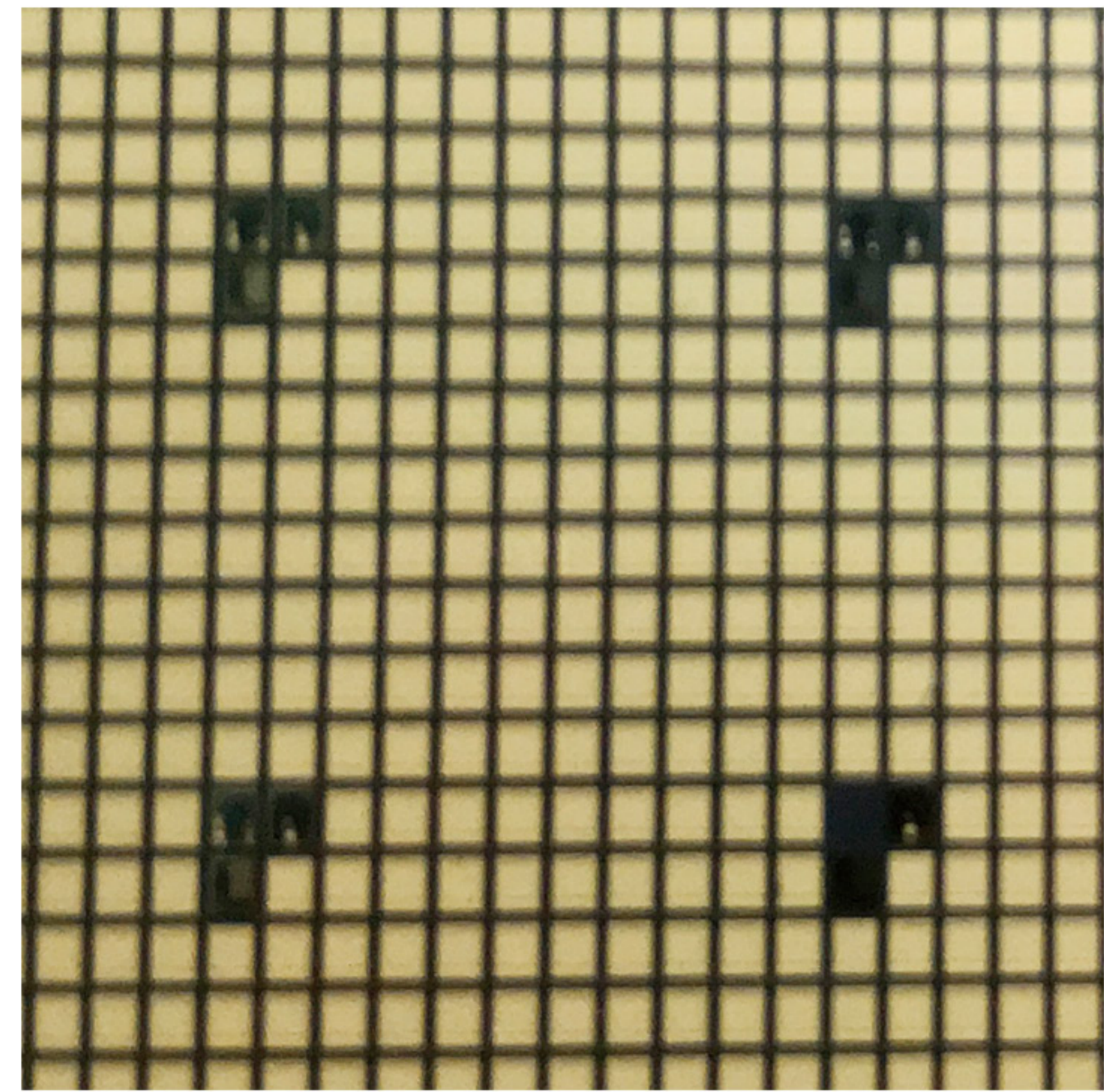


Laser Chip VCSEL-TOF

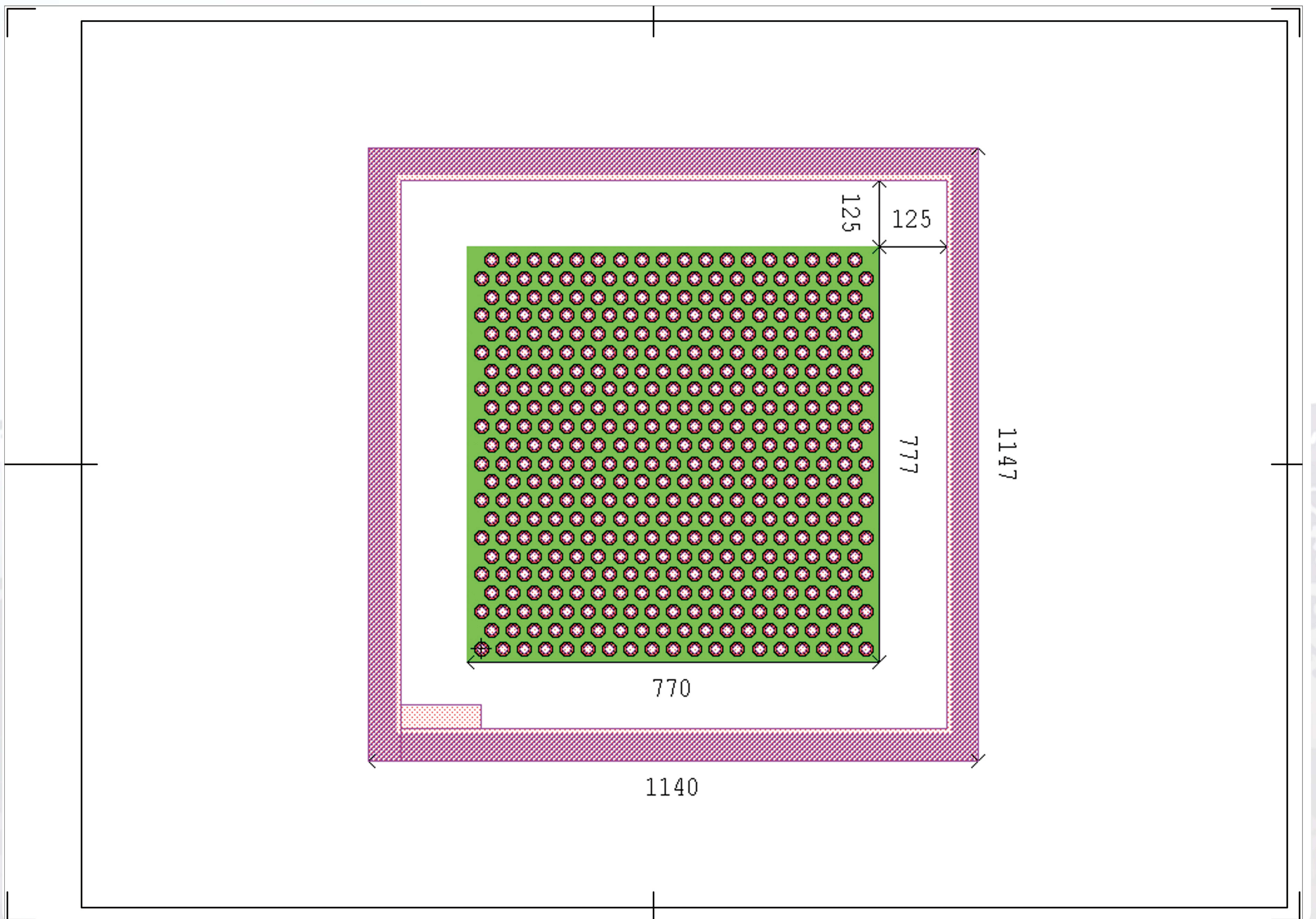


Application

- 3D Sensing
- Biomedical

Features

- High Stability
- Long Lifetime
- High Efficiency
- Customizable



TOF Serial		Item Number ¹ EB-VCSEL-TOF-1.5-0940		
Parameter	Unit	Min	Type	Max
Optical²				
Center Wavelength@Iop ⁶	nm	930	940	950
Spectral width (half width)	nm		1	
Wavelength temperature coefficient	nm/°C		0.07	
Light aperture ⁶	μm	9	10	11
Minimum spacing of arrays ⁶	μm		40	
Number of light points			407	
Output Power ⁵⁶	mW		1500	
Operating current	mA		1900	
Power consumption	mW		3800	
Operating Voltage	V		2.0	
Operating efficiency	%	35	40	
Threshold current	mA		400	
Divergence angle ⁴	°	23	25	27
Geometric size				
Luminous zone length	μm		777	
Light-emitting area width	μm		770	
Chip length	μm		1147	
Chip width	μm		1140	
Chip thickness	μm	90	100	110
Notes				
1. Explanation of Item Number: EB (Everbright In Short) -VCSEL (Vertical Cavity Surface Emitting Laser in short) -TOF (Suitable for flight time scenarios) -1.5 (QCW Output Power is 1.5W) -940 (Center Wavelength is 940nm)				
2. Above Data Test at 25°C, Unless otherwise stated.				
3.Storage Temperature is -40°C-120°C, Operating Temperature is 0°C-70°C				
4.Full width@ 1/e ²				
5.Exceeding the normal power range will shorten the service life				
6..Customers can customize wavelength, power, aperture, spacing, etc.				
Version: XP07-1811D-R01				



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