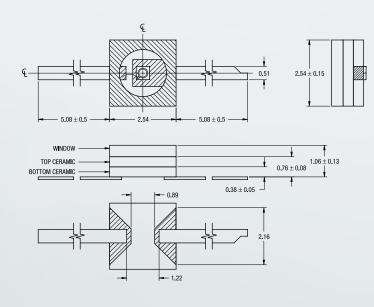
FCI-InGaAs-XXX-CCER with active area sizes of 75μm, 120μm, 300μm, 400μm and 500μm are part of OSI Optoelectronics's high speed IR sensitive photodiodes mounted on gull wing ceramic substrates with glass windows. These devices have a glass window attached to the ceramic where fibers can be directly epoxy mounted onto. The chips can be epoxy or eutectic mounted onto the ceramic substrate. These devices can be provided with custom AR coated windows.

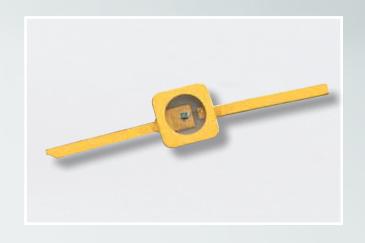
APPLICATIONS

- High Speed Optical Communications
- Gigabit Ethernet/Fibre Channel
- SONET / SDH, ATM
- Diode Laser Monitoring
- Instrumentation

FEATURES

- Low Noise
- High Responsivity
- High Speed
- Spectral Range
 900nm to 1700nm





Notes:

- All units in millimeters.
- All devices are mounted with low out gassing conductive epoxy with tolerance of ±25µm.
 Eutectic mounting is also available upon request.

Absolute Maximum Ratings										
PARAMETERS	SYMBOL	MIN	MAX	UNITS						
Storage Temperature	T _{stg}	-40	+85	°C						
Operating Temperature	T _{op}	0	+70	°C						
Soldering Temperature	T _{sld}		+260	°C						

Electro-Optical Characteristics T _A =23°C													23°C					
PARAMETERS	SYMBOL	CONDITIONS	FCI-InGaAs-75CCER		FCI-InGaAs-120CCER		FCI-InGaAs-300CCER		FCI-InGaAs-400CCER			FCI-InGaAs-500CCER			UNITS			
			MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	UNIIS
Active Area Diameter	AA_{ϕ}			75			120			300			400			500		μm
Responsivity	R _a	λ=1310nm	0.80	0.90		0.80	0.90		0.80	0.90		0.80	0.90		0.80	0.90		A/W
	κ_{λ}	λ=1550nm	0.90	0.95		0.90	0.95		0.90	0.95		0.90	0.95		0.90	0.95		
Capacitance	C _j	V _R = 5.0V		0.65			1.0			10.0			14.0			20.0		pF
Dark Current	I _d	V _R = 5.0V		0.03	2		0.05	2		0.30	5		0.40	5		0.50	20	nA
Rise Time/ Fall Time	t _r /t _f	$V_R = 5.0V,$ $R_L = 50\Omega$ 10% to 90%			0.20			0.30			1.5			3.0			10.0	ns
Max. Reverse Voltage					20			20			15			15			15	V
Max. Reverse Current					1			2			2			2			2	mA
Max. Forward Current					5			5			8			8			8	mA
NEP				3.44E- 15			4.50E- 15			6.28E- 15			7.69E- 15			8.42E- 15		W/√Hz