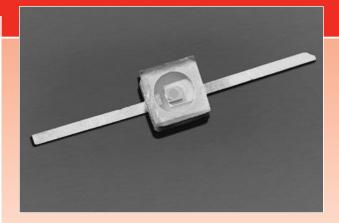
FCI-InGaAs-XXX-CCER

High Speed InGaAs Photodiodes Mounted on Cavity Ceramic Packages

FCI-InGaAs-XXX-CCER with active area sizes of 70µm, 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.

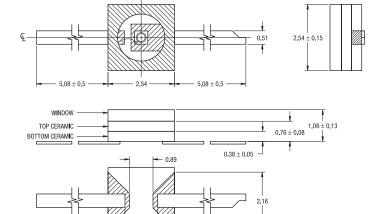


APPLICATIONS

- 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
- 900nm to 1700nn



⊢ 1.22

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

• All units in millimeters.

Notes:

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

PARAMETERS	SYMBOL	CONDITIONS	FCI-InGaAs-70CCER		FCI-InGaAs-120CCER			FCI-InGaAs-300CCER			FCI-InGaAs-400CCER			FCI-InGaAs-500CCER				
			MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	ТҮР	MAX	MIN	TYP	MAX	UNITS
Active Area Diameter	AA _¢			70			120			300			400			500		μm
Responsivity	R _λ	λ=1310nm	0.80	0.90		0.80	0.90		0.80	0.90		0.80	0.90		0.80	0.90		A/W
		λ=1550nm	0.90	0.95		0.90	0.95		0.90	0.95		0.90	0.95		0.90	0.95		
Capacitance	Cj	$V_{R} = 5.0V$		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. Revervse 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

