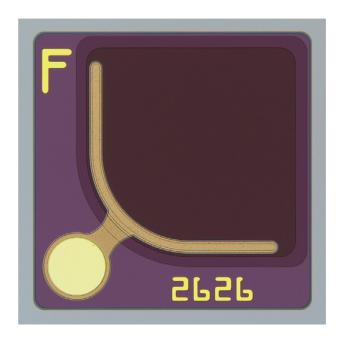
TOP ILLUMINATED SELF-HERMETIC MONITOR PHOTODIODE (MPD) CHIP

INM00AA10D102



FEATURES

- Top illuminated monitor photodiode with a nominal active area of 255 μm x 255 μm
- Operating temperature -40 °C to 90 °C
- Qualified according to GR-468 for use in non-hermetic packages
- Extremely low dark current with high reliability
- Response to 1270 -1620 nm with typical responsivity of 0.9 A/W at 1310 nm
- RoHS compliant

SHIPPING REQUIREMENTS

 Tested and inspected chips on UV tape with grip ring Ø 150 mm



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Electro-Optical Characteristics

Electro-optics characteristics at 25 °C

Parameter	Symbol	Condition	Min	Typical	Max	Unit
Responsivity	R	λ = 1310 nm		0.9		A/W
Dark Current	ID	VR = 5V			2	nA
Breakdown Voltage	VBD	IR=10 μA	20			V
Capacitance	С	VR =5V, f=1MHz		5		pF

Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Reverse Bias Voltage	Vr	10	V
Reverse Current	lr	10	mA
Forward Current	If	10	mA

Environmental Exposure Ratings

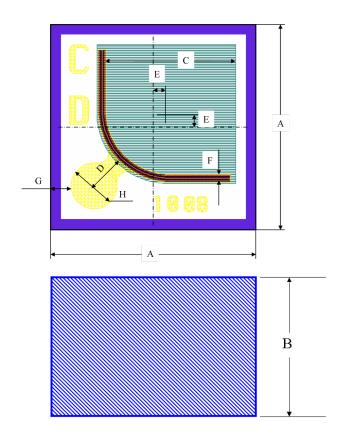
Parameter	Symbol	Rating	Unit
Operating Temperature	Тор	-40 to 90	°C
Storage Temperature	Tstg	-40 to 120	°C
ESD threshold (HBM)	V _{ESD th}	300	V

Chip Dimensions

	Parameter	Min	Nom	Max	Unit
А	Chip Size (length & width)	375	400	425	μm
В	Chip Thickness	90	110	130	μm
С	Active Area Size (length & width)	245	255	265	μm
D	Bond Pad Center Distance from Contact Ring	75	85	95	μm
Е	Active Area Center Offset from Chip Center	20	25	30	μm
F	Contact Ring Width	10	15	20	μm
G	Bond Pad Distance from Chip Edge	25	35	45	μm
Н	Bond Pad Diameter	68	73	78	μm



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RoHS Compliance

Coherent is fully committed to environment protection and sustainable development and has set in place a comprehensive program for removing polluting and hazardous substances from all of its products. The relevant evidence of RoHS compliance is held as part of our controlled documentation for each of our compliant products. RoHS compliance parts are available to order, please refer to the ordering information section for further details.

Ordering Information

Product Code Wavelength Description Shipment Packaging INM00AA10D102 1270 - 1620 nm MPD Die chips on Grip ring (1)

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by Coherent before they become applicable to any particular order or contract. In accordance with the Coherent policy of continuous improvement specifications may change without notice. Further details are available from any Coherent sales representative.



⁽¹⁾ Tested and inspected chips on blue tape on grip ring Ø 150 mm (standard high volume)