

InSb/HgCdTe 2-Color

Product Data Sheet



InSb/HgCdTe 2-color infrared detectors for both commercial and defence applications. These detectors are constructed to respond to different but adjacent regions of the infrared spectrum. One element has a short wavelength response and the other element responds to longer wavelength radiation.

Our unique construction permits both elements to be at the same focal point. The InSb/HgCdTe two-color detector has an InSb element responding from 1µm to 5.5µm and the HgCdTe element to radiation from 5.5µm to 12.5µm. The HgCdTe element can be tailored to extend its long wavelength response to beyond 25µm. Custom configurations to customer specifications are available. Contact us to discuss your specific requirements



Standard InSb/HgCdTe 2-color infrared detectors

Model Number	FOV= 60°, InSb (λpk,1000,1), HgCdTe (λpk,10000,1)					Std. Pkg.	Std. Window
	Active Area Element (mm)	Wavelength Response (20% λco) (µm)	D* (cmHz ^{1/2} W ⁻¹)	Responsivity	Operating Temp. (K)		
2C-.25 InSb HgCdTe	q0.25/0.25x0.25 0.25x0.25	1- 5.5 5.5-12.5	≥1.0E11 ≥ 3.0E10	≥ 3 A/W ≥4000V/W	77	MSL-8 MSL-12 or MDL-8 MDL-12	ZnSe (2-14mm)
2C-.5 InSb HgCdTe	q0.5/0.5x0.5 0.5x0.5		≥1.0E11 ≥ 3.0E10	≥ 3 A/W ≥2500V/W			
2C- 1 InSb HgCdTe	q1/ 1.0x1.0 1.0x1.0		≥ 1.0E11 ≥ 3.0E10	≥ 3 A/W ≥1000V/W			
2C- 2 InSb HgCdTe	q2/ 2.0x2.0 2.0x2.0		≥ 1.0E11 ≥ 2.0E10	≥ 3 A/W ≥250V/W			
MSL-8 Side Looking Metal Dewar---8 Hour Hold Time MDL-8 Down Looking Metal Dewar---8 Hour Hold Time			MSL-12 Side Looking Metal Dewar---12 Hour Hold Time MDL-12 Down Looking Metal Dewar---12 Hour Hold Time				

InSb/HgCdTe 2-Color

Contact Details

Manufacturer

Infrared Associates

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Distributor

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Disclaimer

This data sheet has been compiled to the best of our knowledge and with the utmost care. Nevertheless, we cannot guarantee that the information contained herein is up to date, accurate, complete or suitable for specific applications. The technical data and specifications are provided solely for the purpose of providing non-binding preliminary information. They do not constitute any warranted characteristics in the legal sense.

The user is obliged to check the suitability and applicability of the product for their specific intended use on their own responsibility. We accept no liability for any damage arising from the use of the information provided here.

We expressly reserve the right to make changes to the technical data and to correct any errors.