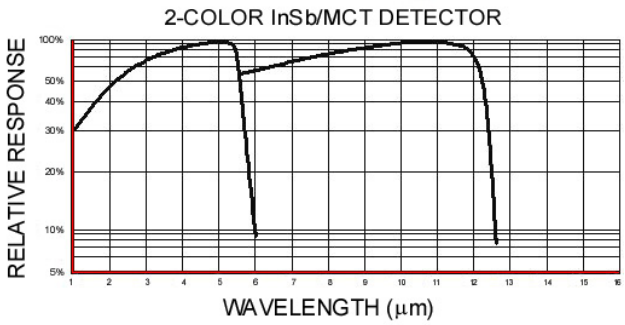
InSb/HgCdTe 2-Color

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 MSL-12 Side Looking Metal Dewar---12 Hour Hold Time MDL-8 Down Looking Metal Dewar---8 Hour Hold Time MDL-12 Down Looking Metal Dewar---12 Hour Hold Time							

Contact Details

Manufacturer

Infrared Associates
2851 SE Monroe Street
Stuart, FL 34997
Phone: 772-223-6670 ext. 101

Distributor

Acal BFi
www.acalbfi.com

Disclaimer