

LWIR (2 to 40 $\mu$ m)

Detectors included in this category are HgCdTe Photoconductors and specialized Pyroelectric and Thermopile detectors that are used to cover the 1 to 40+ micron spectral range. A variety of standard sizes and custom geometries are available.



Type	Part number	Active Area	Operating Wavelength (nm)	Resistance ( $\Omega$ )	Responsivity (V/W)	Time Constant ( $\mu$ s)	Detectivity ( $\text{cm}\cdot\text{Hz}^{1/2}/\text{W}$ )
Hg CdTe	MCT10-0025	0.25 sq	2 - 12+	20 - 100	$> 1 \times 10^4$	0.5	$> 5 \times 10^{10}$
	MCT10-005	0.5 sq	2 - 12+	20 - 100	$> 4 \times 10^3$	0.5	$> 5 \times 10^{10}$
	MCT10-010	1 sq	2 - 12+	20 - 100	$> 2 \times 10^3$	0.5	$> 5 \times 10^{10}$
	MCT10-020	2 sq	2 - 12+	20 - 100	$> 200$	0.5	$> 5 \times 10^{10}$
	MCT14-0025	0.25 sq	2 - 15+	20 - 100	$> 1 \times 10^4$	0.3	$> 4 \times 10^{10}$
	MCT14-005	0.5 sq	2 - 15+	20 - 100	$> 3 \times 10^3$	0.3	$> 4 \times 10^{10}$
	MCT14-010	1 sq	2 - 15+	20 - 100	$> 1 \times 10^3$	0.3	$> 4 \times 10^{10}$
	MCT14-020	2 sq	2 - 15+	20 - 100	$> 100$	0.3	$> 4 \times 10^{10}$
	MCT20-005	0.5 sq	2 - 20+	18 - 40	$> 300$	0.1	$> 1 \times 10^{10}$
MCT20-010	1 sq	2 - 20+	18 - 40	$> 100$	0.1	$> 0.5 \times 10^{10}$	

Note : Package : LN Dewar

## NIR Position Sensors

The G-series Germanium and IGA-series InGaAs Position Sensors are a family of lateral effect photodiodes sensitive in the near-IR region of the spectrum - from 800nm to 1700nm. They offer continuous position sensing capability over a selection of active sizes and are available as components or as integrated photodiode/preamplifier subassemblies.



Type	Part number	Active Area	Operating Wavelength (nm)	Shunt Resistance ( $\Omega$ )	Shunt Capacitance (pF)	Responsivity (A/W)
InGaAs	IGA-020-PSD	2mm dia.	1000-1700	5M min./10M typ.	400	0.9
	IGA-030-PSD	3mm dia.	1000-1700	5M min./10M typ.	1200	0.9
	IGA-050-PSD	5mm dia.	800-1700	0.5M	2500	0.85
Germanium	G-020-PSD	2mm dia.	800-1800	50k min./100k typ.	9000	0.85
	G-030-PSD	3mm dia.	800-1800	25k min./40k typ.	13000	0.85
	G-050-PSD	5mm dia.	800-1700	10K min./15K typ.	10000	0.85
	G-100-PSD	10mm dia.	800-1700	1K min./2K typ.	30000	0.85
	G-130-PSD	13mm dia.	800-1700	1K min./2K typ.	40000	0.85