

## CRYOGENIC DETECTORS

### INSB

Part No.	Active Dia. [ mm ]	Operating Wavelength [ microns ]	Responsivity [ A/W, min ]	Shunt Resistance [ ohms ]	Shunt Capacitance [ pF ]	Detectivity [ cm-Hz <sup>1/2</sup> /W ]	Package
<b>IS-0025</b>	0.25	1.0 – 5.5	2.0 @ 5.0µm	> 10M	40	1.0 x 10 <sup>11</sup>	LN Dewar
<b>IS-010</b>	1.0	1.0 – 5.5	2.0 @ 5.0µm	> 1M	400	1.0 x 10 <sup>11</sup>	LN Dewar
<b>IS-020</b>	2.0	1.0 – 5.5	2.0 @ 5.0µm	> 200k	1200	1.0 x 10 <sup>11</sup>	LN Dewar
<b>IS-030</b>	3.0	1.0 – 5.5	2.0 @ 5.0µm	> 150k	1800	1.0 x 10 <sup>11</sup>	LN Dewar
<b>IS-040</b>	4.0	1.0 – 5.5	2.0 @ 5.0µm	> 100k	3000	0.8 x 10 <sup>11</sup>	LN Dewar
<b>IS-050</b>	5.0	1.0 – 5.5	2.0 @ 5.0µm	> 50k	7000	0.8 x 10 <sup>11</sup>	LN Dewar
<b>IS-070</b>	7.0	1.0 – 5.5	1.8 @ 5.0µm	> 10k	15000	0.5x 10 <sup>11</sup>	LN Dewar
<b>IS-100</b>	10.0	1.0 – 5.5	1.8 @ 5.0µm	> 2k	30000	0.5 x 10 <sup>11</sup>	LN Dewar

#### AVAILABLE OPTIONS INCLUDE:

- External or integrated amplifiers (See Receivers)
- User Specified FOV (60° STD)
- Cold filters for sensitivity enhancement (Standard 2.8, 3.2, 3.4, 4.3 micron cut-offs)
- Other sizes and Geometries

### MCT

Part No.	Active Area	Operating Wavelength	Responsivity V/W @ pk [ typ ]	Resistance -ohms [ typ ]	Time Constant	Detectivity [ cm-Hz <sup>1/2</sup> /W ]	Package
<b>MCT10-0025</b>	.25mm sq.	2 – 12 <sup>+</sup>	> 1x10 <sup>4</sup>	20 - 100	0.5 µs	> 5 x 10 <sup>10</sup>	LN Dewar
<b>MCT10-005</b>	0.5mm sq.	2 – 12 <sup>+</sup>	> 4x10 <sup>3</sup>	20 - 100	0.5 µs	> 5 x 10 <sup>10</sup>	LN Dewar
<b>MCT10-010</b>	1.0mm sq.	2 – 12 <sup>+</sup>	> 2x10 <sup>3</sup>	20 - 100	0.5 µs	> 5 x 10 <sup>10</sup>	LN Dewar
<b>MCT10-020</b>	2.0mm sq.	2 – 12 <sup>+</sup>	> 200	20 - 100	0.5 µs	> 5 x 10 <sup>10</sup>	LN Dewar
<b>MCT14-0025</b>	.25mm sq.	2 – 15 <sup>+</sup>	> 1x10 <sup>4</sup>	20 - 100	0.3 µs	> 4 x 10 <sup>10</sup>	LN Dewar
<b>MCT14-005</b>	0.5mm sq.	2 – 15 <sup>+</sup>	> 3x10 <sup>3</sup>	20 - 100	0.3 µs	> 4 x 10 <sup>10</sup>	LN Dewar
<b>MCT14-010</b>	1.0mm sq.	2 – 15 <sup>+</sup>	> 1x10 <sup>3</sup>	20 - 100	0.3 µs	> 4 x 10 <sup>10</sup>	LN Dewar
<b>MCT14-020</b>	2.0mm sq.	2 – 15 <sup>+</sup>	> 100	20 - 100	0.3 µs	> 4 x 10 <sup>10</sup>	LN Dewar
<b>MCT20-005</b>	0.5mm sq.	2 – 20 <sup>+</sup>	> 300	18 - 40	0.1 µs	> 1.0 x 10 <sup>10</sup>	LN Dewar
<b>MCT20-010</b>	1.0mm sq.	2 – 20 <sup>+</sup>	> 100	18 - 40	0.1 µs	> 0.5 x 10 <sup>10</sup>	LN Dewar

#### AVAILABLE OPTIONS INCLUDE:

- External or integrated amplifiers (See Receivers)
- User Specified FOV (60° STD)
- Cold filters for sensitivity enhancement
- Custom Geometries (Linear Arrays)

#### STANDARD LN – SERIES DEWARs:

**Side View:**  
**LN-4,** 8<sup>+</sup> hour hold time  
**LN-6N,** 12<sup>+</sup> hour hold time  
**LN-9,** 24<sup>+</sup> hour hold time

**Down View:**  
**LN-5,** 8<sup>+</sup> hour hold time  
**LN-7,** 12<sup>+</sup> hour hold time  
**LN-9,** 24<sup>+</sup> hour hold time

**Note:** Custom Sizes & Configurations are Available.  
 - Special High Speed Dewar for up to 200MHz.



CHOOSE YOUR DEWAR SIZE BELOW

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# DEWAR OPTIONS

