



CRYOGENIC DETECTORS

INSB

Part No.	Active Dia. [mm]	Operating Wavelength [microns]	Responsivity [A/W, min]	Shunt Resistance [ohms]	Shunt Capacitance [pF]	Detectivity [cm-Hz ^{1/2} /W]	Package
IS-0025	0.25	1.0 – 5.5	2.0 @ 5.0μm	> 10M	40	1.0 x 10 ¹¹	LN Dewar
IS-010	1.0	1.0 – 5.5	2.0 @ 5.0μm	> 1M	400	1.0 x 10 ¹¹	LN Dewar
IS-020	2.0	1.0 – 5.5	2.0 @ 5.0μm	> 200k	1200	1.0 x 10 ¹¹	LN Dewar
IS-030	3.0	1.0 – 5.5	2.0 @ 5.0μm	> 150k	1800	1.0 x 10 ¹¹	LN Dewar
IS-040	4.0	1.0 – 5.5	2.0 @ 5.0μm	> 100k	3000	0.8 x 10 ¹¹	LN Dewar
IS-050	5.0	1.0 – 5.5	2.0 @ 5.0μm	> 50k	7000	0.8 x 10 ¹¹	LN Dewar
IS-070	7.0	1.0 – 5.5	1.8 @ 5.0μm	> 10k	15000	0.5x 10 ¹¹	LN Dewar
IS-100	10.0	1.0 – 5.5	1.8 @ 5.0μm	> 2k	30000	0.5 x 10 ¹¹	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 ^{1/2} /W]	Package
MCT10-0025	.25mm sq.	2 – 12 ⁺	> 1x10 ⁴	20 - 100	0.5 μs	> 5 x 10 ¹⁰	LN Dewar
MCT10-005	0.5mm sq.	2 – 12 ⁺	> 4x10 ³	20 - 100	0.5 μs	> 5 x 10 ¹⁰	LN Dewar
MCT10-010	1.0mm sq.	2 – 12 ⁺	> 2x10 ³	20 - 100	0.5 μs	> 5 x 10 ¹⁰	LN Dewar
MCT10-020	2.0mm sq.	2 – 12 ⁺	> 200	20 - 100	0.5 μs	> 5 x 10 ¹⁰	LN Dewar
MCT14-0025	.25mm sq.	2 – 15 ⁺	> 1x10 ⁴	20 - 100	0.3 μs	> 4 x 10 ¹⁰	LN Dewar
MCT14-005	0.5mm sq.	2 – 15 ⁺	> 3x10 ³	20 - 100	0.3 μs	> 4 x 10 ¹⁰	LN Dewar
MCT14-010	1.0mm sq.	2 – 15 ⁺	> 1x10 ³	20 - 100	0.3 μs	> 4 x 10 ¹⁰	LN Dewar
MCT14-020	2.0mm sq.	2 – 15 ⁺	> 100	20 - 100	0.3 μs	> 4 x 10 ¹⁰	LN Dewar
MCT20-005	0.5mm sq.	2 – 20 ⁺	> 300	18 - 40	0.1 μs	> 1.0 x 10 ¹⁰	LN Dewar
MCT20-010	1.0mm sq.	2 – 20 ⁺	> 100	18 - 40	0.1 μs	> 0.5 x 10 ¹⁰	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⁺ hour hold time
LN-6N, 12⁺ hour hold time
LN-9, 24⁺ hour hold time

Down View:

LN-5, 8⁺ hour hold time
LN-7, 12⁺ hour hold time
LN-9, 24⁺ hour hold time

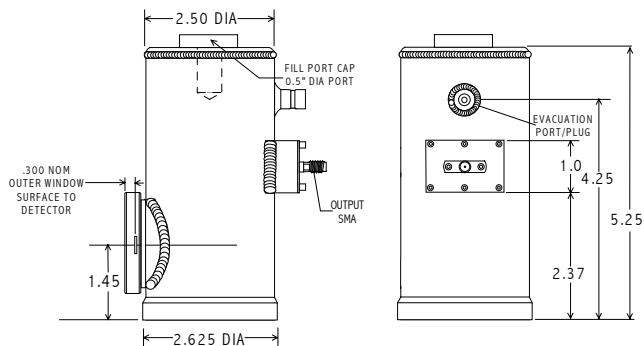
Note: Custom Sizes & Configurations are Available.
 - Special High Speed Dewar for up to 200MHz.



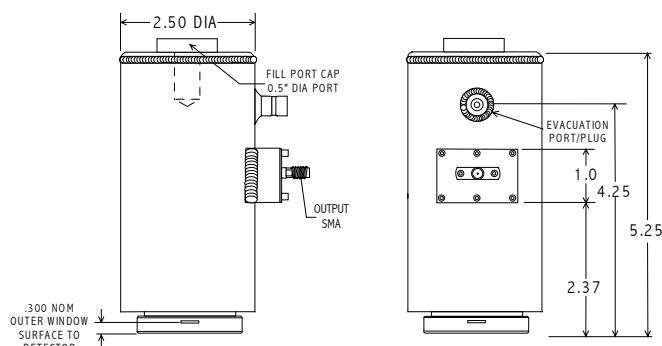
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DEWAR OPTIONS

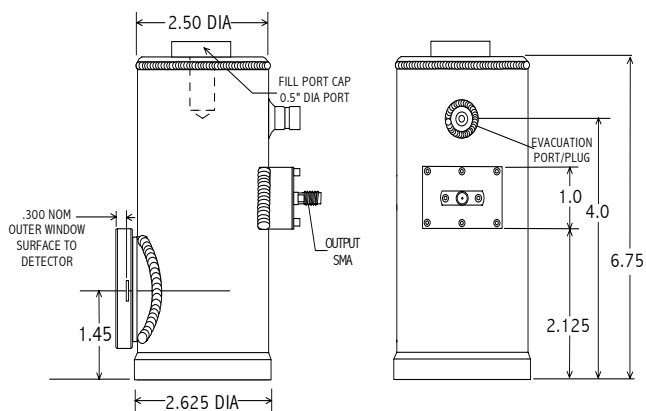
LN4



LN5



LN6



LN7

