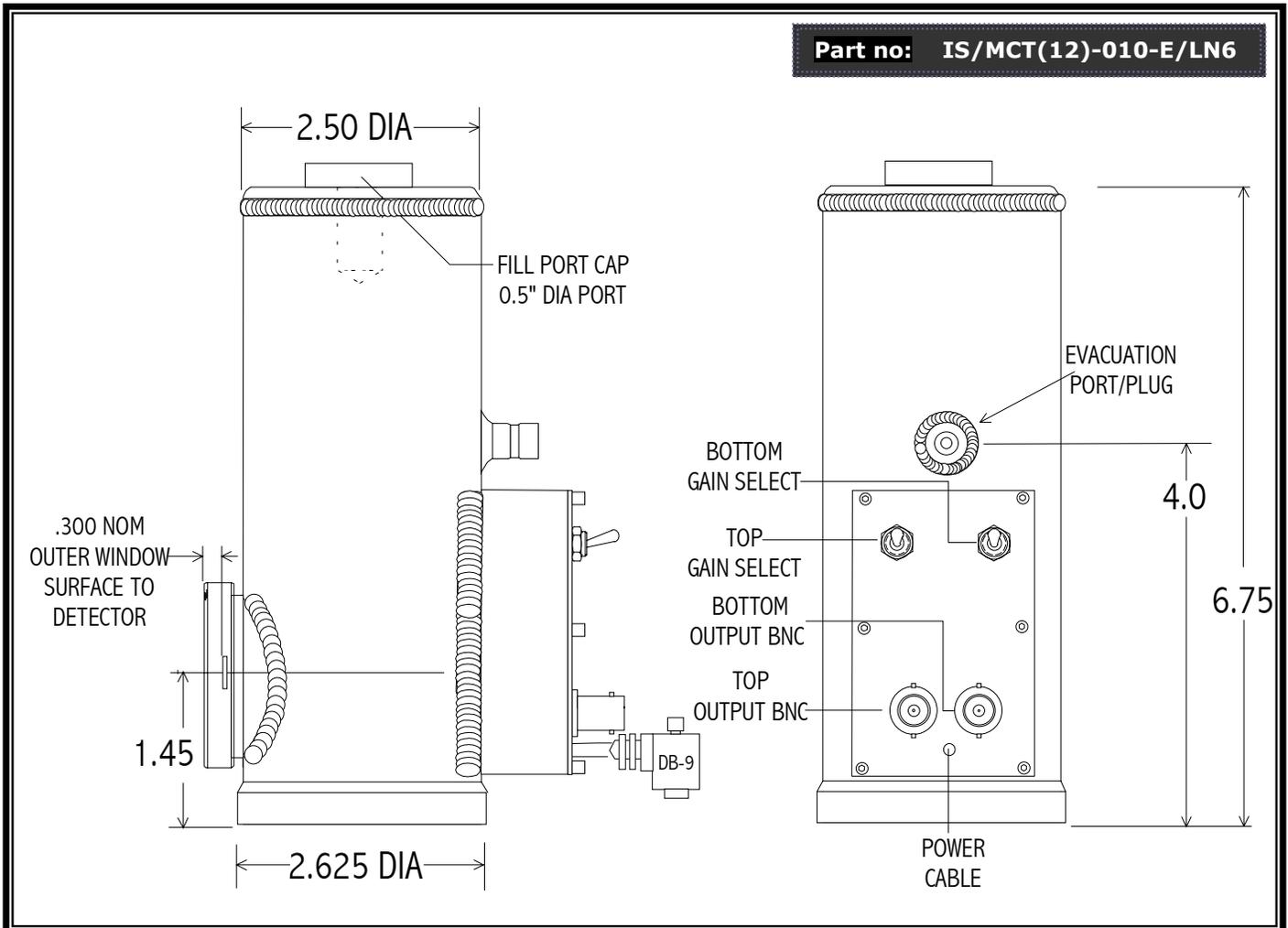


## LN-6 2-COLOR PHOTODETECTOR RECEIVER

**Part no: IS/MCT(12)-010-E/LN6**



### SPECIFICATIONS @ 77K

Detector	TOP: 1mm dia InSb Photodiode	BOTTOM: 1mm x 1mm MCT12 detector
Spectral Range	2 – 5.5 $\mu\text{m}$ , pk $\sim$ 5.0	5.5 – 14 $\mu\text{m}$ , pk $\sim$ 12.
Responsivity-V/W @ pk,Amp Output	$2.5 \times 10^5 / 10^4$	$3 \times 10^5 / 10^4$
Noise- V/Hz <sup>1/2</sup> @ 1000Hz	$2.5 \times 10^{-7} / 10^{-8}$	$1.0 \times 10^{-6} / 10^{-7}$
D*(pk)- cm <sup>2</sup> Hz <sup>1/2</sup> /W @ pk	$1.0 \times 10^{11}$	$3.0 \times 10^{10}$
Bandwidth (-3dB)- Hz	DC – 50k	5 – 50k
Dewar LN <sub>2</sub> Hold Time	12 + HOURS	
Power Requirements	+/- 9VDC TO +/- 15 VDC, 40 mA	
Connections	BNC signal with 3 lead shielded power cable. Red = +V, Black = -V, White/Shield = ground <b>Note:</b> A DB9 connector is provided on units purchased with optional PS-1 Low Noise Power Supply	