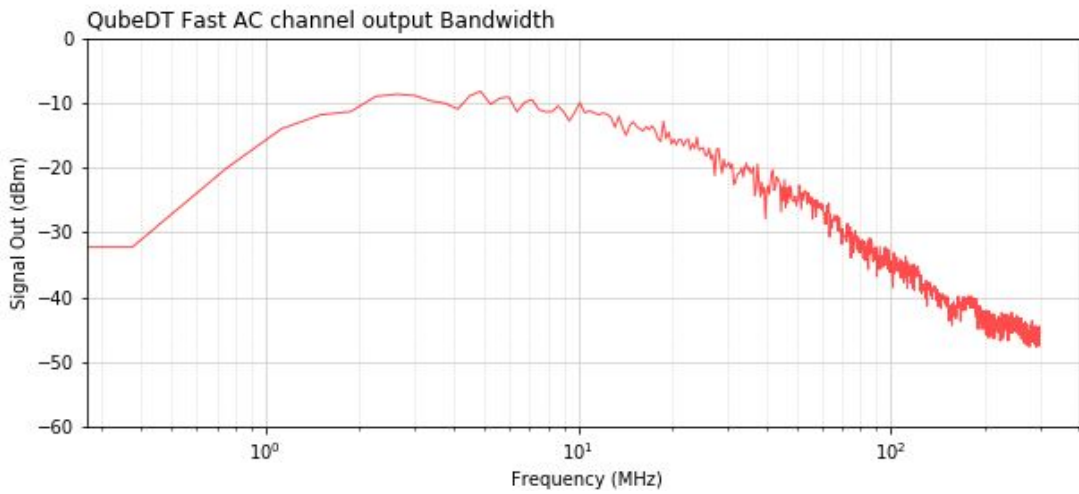


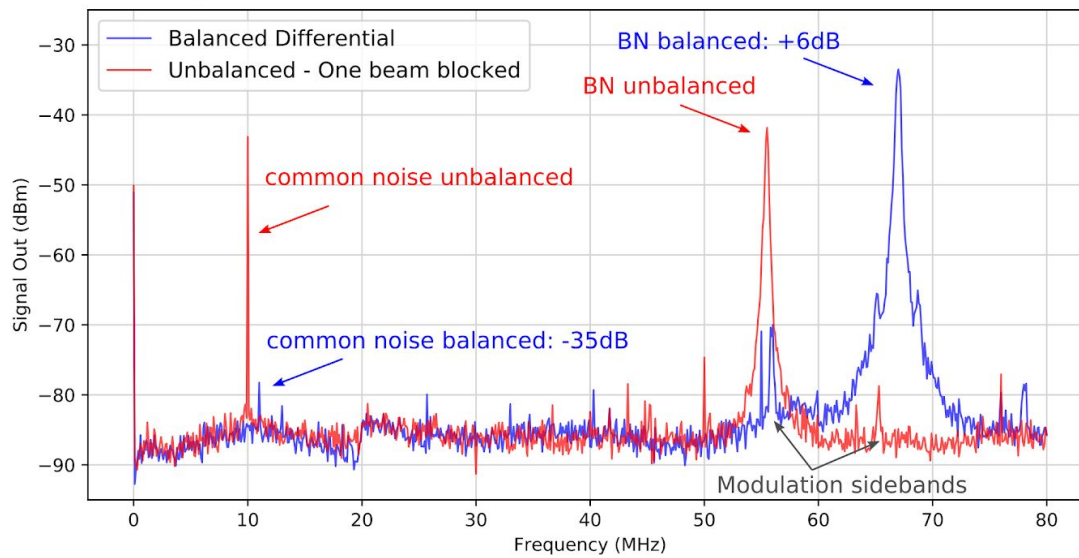
Preamplifier and detectors specification

Parameter	Unit	Typical Values	Conditions, Remarks
Wavelength	μm		
Detector model		Vigo PVI-4TE-5	Two detectors, hyperhemispherical lens, FOV = 35°
Optical Area	mm	1 x 1	sapphire wedged
Window		wAl <sub>2</sub> O <sub>3</sub>	
Bandwidth DC	kHz	250	
Transimpedance DC	kΩ	1k ± 10%	R <sub>LOAD</sub> = 1MΩ
Output voltage responsivity DC	V/W	7x10 <sup>2</sup>	R <sub>LOAD</sub> = 1MΩ
Amplifier Electronic Bandwidth AC	MHz	>200	
Transimpedance AC	kΩ	10k ±10%	R <sub>LOAD</sub> = 50Ω
Output Noise density AC	nV/√Hz	<10	@10MHz
Output voltage responsivity AC	V/W	1.5x10 <sup>4</sup>	R <sub>LOAD</sub> = 50Ω
CMRR @ 10MHz	dB	>30	* see plot at page 2
Output Impedance DC			R <sub>LOAD</sub> = 1MΩ
Output Impedance AC	Ω	50	R <sub>LOAD</sub> = 50Ω
Power supply voltage	V	15	
Power supply Current	A	1.2	
Operating temperature	°C	+5 to +25	
Ready state	minutes	2	
Outline dimension	mm	120 x 100 x 87	
Weight	kg	1	
Storage temperature	°C	+5 to +25	

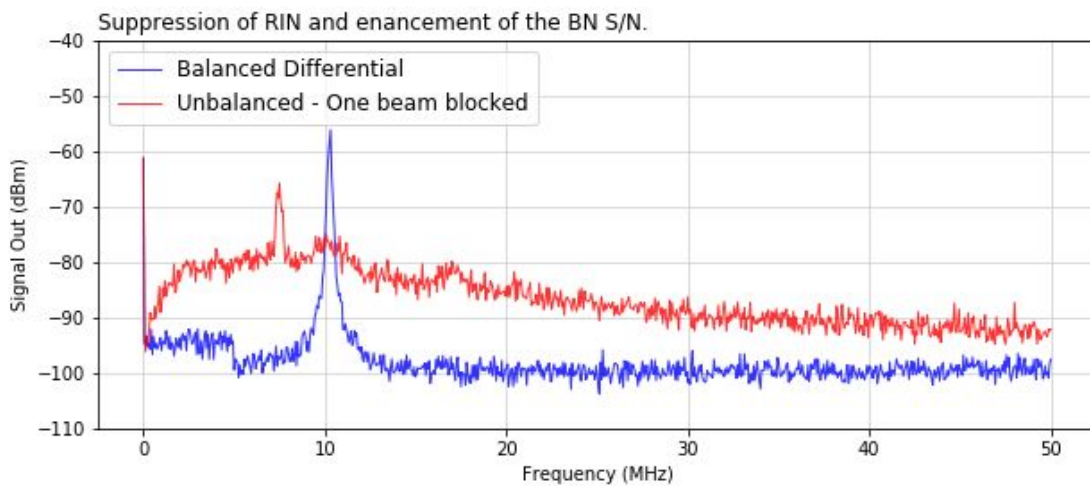
### Fast AC channel Bandwidth:



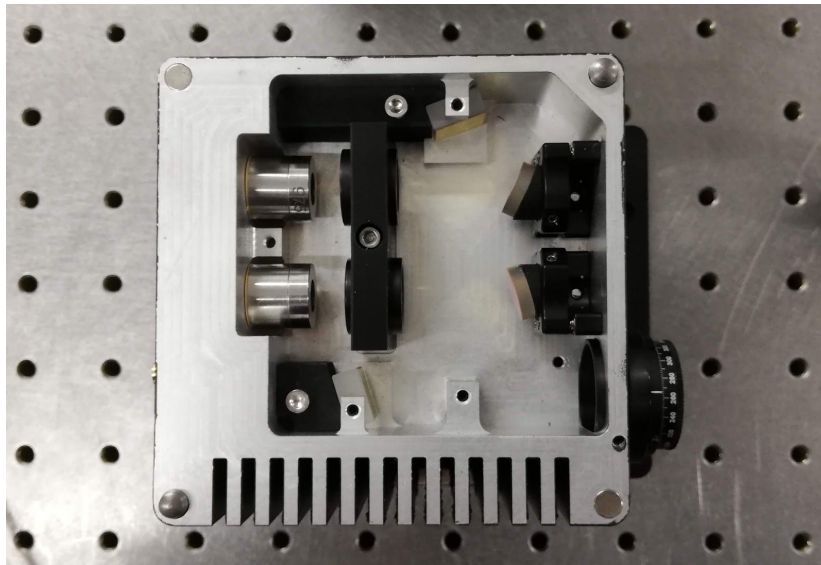
### CMRR @ 10MHz:



### RIN suppression and S/N enhancement::



## Embedded optics for balanced detection



## Front Panel and General Views

