

Tested By: _____

Date: _____

LSC Style Detector Measured Parameters

All transimpedance measurements are referred to plane of the physical output connector and include the effect of the voltage divider created by the 50 Ω termination. All notch rejection ratios are relative to the magnitude of the transimpedance at the respective RF detection center frequency of the given RF output port.

Parameter	Value	
Detector serial number		
Detector schematic D# and revision		
Diode element manufacturer's serial number		
Quiescent DC current (amps at +18 VDC)		
Quiescent DC current (amps at -18 VDC)		
PD bias regulator output voltage (VDC)		
RF opamp positive voltage regulator (VDC)		
RF opamp negative voltage regulator (VDC)		
Audio opamp positive voltage regulator (VDC)		
Audio opamp negative voltage regulator (VDC)		
DC path transimpedance and zero light offset (Ω /mVDC at BNC out)	Ω	mVDC
DC path transimpedance and zero light offset (Ω /mVDC at differential out)	Ω	mVDC
DC path zero frequency (Hz)		
DC path pole frequency (Hz)		
Inferred DC path shot noise limited input photo sensitivity (mA) at 100Hz measured at differential output		
RF detection center frequency (MHz), f low		
RF detection center frequency (MHz), f hi		
Notch frequencies (MHz) used in design		
F low feedback notch frequency		

F hi feedback notch frequency		
Rejection (dB) at notch1 (f low)		
Rejection (dB) at notch2 (f low)		
Rejection (dB) at notch3 (f low)		
Rejection (dB) at notch4 (f low)		
Rejection (dB) f low to f hi		
Rejection (dB) at notch1 (f hi)		
Rejection (dB) at notch2 (f hi)		
Rejection (dB) at notch3 (f hi)		
Rejection (dB) at notch4 (f hi)		
Rejection (dB) f hi to f low		
Transimpedance (Ω) at f low (note PD Current)	Ω	mA
RF dark/light noise used for f low Trans-Z	dBm/Hz	dBm/Hz
Transimpedance (Ω) at f hi (note PD Current)	Ω	mA
RF dark/light noise used for f hi Trans-Z	dBm/Hz	dBm/Hz
RF preamp used during testing (noise/gain)	dBm/Hz	dB
f low, shot-noise limited input sensitivity (mA)		
f hi, shot-noise limited input sensitivity (mA)		
Test input transconductance at f1(mA/V)		
Test switch isolation at f1 (dB)		
Test input transconductance at f2(mA/V)		
Test switch isolation at f2 (dB)		