

Data taken on S1300520 LSC RFPD, page 64 of notebook #4. Nominal component values per D1101124-v7 component variations sheet T1200428 -v6

9MHz Measured Transimpedance	523				
9MHz Measured Shot Noise Equivalent Photocurrent	1.35mA				
Dark Noise measured at 9MHz at Output Connector	-146.2 dBm/Hz	11nV/rtHz			
	18MHz	36MHz	54MHz	45MHz	90MHz
Transfer function measurement relative to 9MHz Output (dB)	-31	-36	-37	-36	-33
Calculated 9MHz Output Transimpedance (Ω)	15	8	7	8	12
45MHz Measured Transimpedance	688				
45MHz Measured Shot Noise Equivalent Photocurrent	1.98mA				
Dark Noise measured at 45MHz at Output Connector	-142.2 dBm/Hz	17.4nV/rtHz			
	9MHz	18MHz	36MHz	54MHz	90MHz
Transfer function measurement relative to 45MHz Output (dB)	-58	-52	-35	-30	-35
Calculated 45MHz Output Transimpedance (Ω)	1	2	12	22	12

Photocurrent (mA) associated with each optical power level assuming QE = 95% at REFL Port

	Carrier	9MHz	18MHz	27MHz	36MHz	45MHz	54MHz	63MHz	72MHz	81MHz	90MHz
	40.30	0.03	7.90	0.00	4.52	0.01	1.74	0.00	0.05	0.00	2.33
Anticipated Signal Level (mVrms) at output pin of RF opamp 9 MHz Input	18MHz	36MHz	54MHz	45MHz	90MHz						
	233.00	74.95	25.71	0.13	54.46						
Anticipated Signal Level (mVrms) at output pin of RF opamp 45MHz Output	9MHz	18MHz	36MHz	54MHz	90MHz						
	0.06	27.32	110.62	75.72	56.90						

