

KAGRA ISC Detection Ports

Port Name	PD Name	Raw signals	Demod. signals	IO channel names	Type	Frequency	Wavelength	DC Power	Description	Reference	Fabricateci	KAGRA
AS RF	AS_f1_HG	AS_f1_HG	AS_f1_HG_I AS_f1_HG_Q	AS_f1_HG_I AS_f1_HG_Q	RF PD	16.875MHz	1064nm		High Gain RF PD f1		no	yes
		AS_f1_HG_DC	AS_f1_HG_DC	AS_f1_HG_DC	RF PD	DC	1064nm		High Gain RF PD f1 DC Out			
	AS_f1_LG	AS_f1_LG	AS_f1_LG_I AS_f1_LG_Q	AS_f1_LG_I AS_f1_LG_Q	RF PD	16.875MHz	1064nm		Low Gain RF PD f1		no	yes
		AS_f1_LG_DC	AS_f1_LG_DC	AS_f1_LG_DC	RF PD	DC	1064nm		Low Gain RF PD f1 DC Out			
	AS_QPD_f1_G1	AS_QPD_f1_G1_Q1	AS_QPD_f1_G1_Q1_I AS_QPD_f1_G1_Q1_Q	AS_QPD_f1_G1_Q1_I AS_QPD_f1_G1_Q1_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1		no	no
		AS_QPD_f1_G1_Q1_DC	AS_QPD_f1_G1_Q1_DC	AS_QPD_f1_G1_Q1_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
		AS_QPD_f1_G1_Q2	AS_QPD_f1_G1_Q2_I AS_QPD_f1_G1_Q2_Q	AS_QPD_f1_G1_Q2_I AS_QPD_f1_G1_Q2_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		AS_QPD_f1_G1_Q2_DC	AS_QPD_f1_G1_Q2_DC	AS_QPD_f1_G1_Q2_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
		AS_QPD_f1_G1_Q3	AS_QPD_f1_G1_Q3_I AS_QPD_f1_G1_Q3_Q	AS_QPD_f1_G1_Q3_I AS_QPD_f1_G1_Q3_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		AS_QPD_f1_G1_Q3_DC	AS_QPD_f1_G1_Q3_DC	AS_QPD_f1_G1_Q3_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
		AS_QPD_f1_G1_Q4	AS_QPD_f1_G1_Q4_I AS_QPD_f1_G1_Q4_Q	AS_QPD_f1_G1_Q4_I AS_QPD_f1_G1_Q4_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		AS_QPD_f1_G1_Q4_DC	AS_QPD_f1_G1_Q4_DC	AS_QPD_f1_G1_Q4_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
		AS_QPD_f1_G2_Q1	AS_QPD_f1_G2_Q1_I AS_QPD_f1_G2_Q1_Q	AS_QPD_f1_G2_Q1_I AS_QPD_f1_G2_Q1_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		AS_QPD_f1_G2_Q1_DC	AS_QPD_f1_G2_Q1_DC	AS_QPD_f1_G2_Q1_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
	AS_QPD_f1_G2	AS_QPD_f1_G2_Q2	AS_QPD_f1_G2_Q2_I AS_QPD_f1_G2_Q2_Q	AS_QPD_f1_G2_Q2_I AS_QPD_f1_G2_Q2_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1		no	no
		AS_QPD_f1_G2_Q2_DC	AS_QPD_f1_G2_Q2_DC	AS_QPD_f1_G2_Q2_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
		AS_QPD_f1_G2_Q3	AS_QPD_f1_G2_Q3_I AS_QPD_f1_G2_Q3_Q	AS_QPD_f1_G2_Q3_I AS_QPD_f1_G2_Q3_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		AS_QPD_f1_G2_Q3_DC	AS_QPD_f1_G2_Q3_DC	AS_QPD_f1_G2_Q3_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
		AS_QPD_f1_G2_Q4	AS_QPD_f1_G2_Q4_I AS_QPD_f1_G2_Q4_Q	AS_QPD_f1_G2_Q4_I AS_QPD_f1_G2_Q4_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		AS_QPD_f1_G2_Q4_DC	AS_QPD_f1_G2_Q4_DC	AS_QPD_f1_G2_Q4_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
		OMCT_PD_HG	OMCT_PD_HG	OMCT_PD_HG	DC PD	DC	1064nm		DC PD for OMC Trans. High Gain		no	no
		OMCT_PD_LG	OMCT_PD_LG	OMCT_PD_LG	DC PD	DC	1064nm		DC PD for OMC Trans. Low Gain		no	no
OMC	OMC_QPD1	OMC_QPD1_Q1	OMC_QPD1_Q1	OMC_QPD1_Q1	DC QPD	DC	1064nm		DC QPD1 for OMC Alignment		no	no
		OMC_QPD1_Q2	OMC_QPD1_Q2	OMC_QPD1_Q2	DC QPD	DC	1064nm		DC QPD1 for OMC Alignment			
		OMC_QPD1_Q3	OMC_QPD1_Q3	OMC_QPD1_Q3	DC QPD	DC	1064nm		DC QPD1 for OMC Alignment			
		OMC_QPD1_Q4	OMC_QPD1_Q4	OMC_QPD1_Q4	DC QPD	DC	1064nm		DC QPD1 for OMC Alignment			
	OMC_QPD2	OMC_QPD2_Q1	OMC_QPD2_Q1	OMC_QPD2_Q1	DC QPD	DC	1064nm		DC QPD2 for OMC Alignment		no	no
		OMC_QPD2_Q2	OMC_QPD2_Q2	OMC_QPD2_Q2	DC QPD	DC	1064nm		DC QPD2 for OMC Alignment			
		OMC_QPD2_Q3	OMC_QPD2_Q3	OMC_QPD2_Q3	DC QPD	DC	1064nm		DC QPD2 for OMC Alignment			
		OMC_QPD2_Q4	OMC_QPD2_Q4	OMC_QPD2_Q4	DC QPD	DC	1064nm		DC QPD2 for OMC Alignment			
REFL	REFL_f1_HG	REFL_f1_HG	REFL_f1_HG_I REFL_f1_HG_Q	REFL_f1_HG_I REFL_f1_HG_Q	RF PD	16.875MHz	1064nm		High Gain RF PD f1		no	yes
		REFL_f1_HG_DC	REFL_f1_HG_DC	REFL_f1_HG_DC	RF PD	DC	1064nm		High Gain RF PD f1 DC Out			
	REFL_f1_LG	REFL_f1_LG	REFL_f1_LG_I REFL_f1_LG_Q	REFL_f1_LG_I REFL_f1_LG_Q	RF PD	16.875MHz	1064nm		Low Gain RF PD f1		no	no
		REFL_f1_LG_DC	REFL_f1_LG_DC	REFL_f1_LG_DC	RF PD	DC	1064nm		Low Gain RF PD f1 DC Out			
	REFL_f2_HG	REFL_f2_HG	REFL_f2_HG_I REFL_f2_HG_Q	REFL_f2_HG_I REFL_f2_HG_Q	RF PD	45MHz	1064nm		High Gain RF PD f2		no	no
		REFL_f2_HG_DC	REFL_f2_HG_DC	REFL_f2_HG_DC	RF PD	DC	1064nm		High Gain RF PD f2 DC Out			
	REFL_f2_LG	REFL_f2_LG	REFL_f2_LG_I REFL_f2_LG_Q	REFL_f2_LG_I REFL_f2_LG_Q	RF PD	45MHz	1064nm		Low Gain RF PD f2		no	no
		REFL_f2_LG_DC	REFL_f2_LG_DC	REFL_f2_LG_DC	RF PD	DC	1064nm		Low Gain RF PD f2 DC Out			
	REFL_QPD_f1_G1	REFL_QPD_f1_G1_Q1	REFL_QPD_f1_G1_Q1_I REFL_QPD_f1_G1_Q1_Q	REFL_QPD_f1_G1_Q1_I REFL_QPD_f1_G1_Q1_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1		no	no
		REFL_QPD_f1_G1_Q1_DC	REFL_QPD_f1_G1_Q1_DC	REFL_QPD_f1_G1_Q1_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
		REFL_QPD_f1_G1_Q2	REFL_QPD_f1_G1_Q2_I REFL_QPD_f1_G1_Q2_Q	REFL_QPD_f1_G1_Q2_I REFL_QPD_f1_G1_Q2_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		REFL_QPD_f1_G1_Q2_DC	REFL_QPD_f1_G1_Q2_DC	REFL_QPD_f1_G1_Q2_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
		REFL_QPD_f1_G1_Q3	REFL_QPD_f1_G1_Q3_I REFL_QPD_f1_G1_Q3_Q	REFL_QPD_f1_G1_Q3_I REFL_QPD_f1_G1_Q3_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		REFL_QPD_f1_G1_Q3_DC	REFL_QPD_f1_G1_Q3_DC	REFL_QPD_f1_G1_Q3_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
		REFL_QPD_f1_G1_Q4	REFL_QPD_f1_G1_Q4_I REFL_QPD_f1_G1_Q4_Q	REFL_QPD_f1_G1_Q4_I REFL_QPD_f1_G1_Q4_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		REFL_QPD_f1_G1_Q4_DC	REFL_QPD_f1_G1_Q4_DC	REFL_QPD_f1_G1_Q4_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			

REFL

		REFL_QPD_f1_G1_Q4	REFL_QPD_f1_G1_Q4_Q	REFL_QPD_f1_G1_Q4_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		REFL_QPD_f1_G1_Q4_DC	REFL_QPD_f1_G1_Q4_DC	REFL_QPD_f1_G1_Q4_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
REFL_QPD_f1_G2		REFL_QPD_f1_G2_Q1	REFL_QPD_f1_G2_Q1_I	REFL_QPD_f1_G2_Q1_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1		no	no
		REFL_QPD_f1_G2_Q1_Q	REFL_QPD_f1_G2_Q1_Q	REFL_QPD_f1_G2_Q1_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		REFL_QPD_f1_G2_Q1_DC	REFL_QPD_f1_G2_Q1_DC	REFL_QPD_f1_G2_Q1_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
		REFL_QPD_f1_G2_Q2	REFL_QPD_f1_G2_Q2_I	REFL_QPD_f1_G2_Q2_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		REFL_QPD_f1_G2_Q2_DC	REFL_QPD_f1_G2_Q2_DC	REFL_QPD_f1_G2_Q2_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
		REFL_QPD_f1_G2_Q3	REFL_QPD_f1_G2_Q3_I	REFL_QPD_f1_G2_Q3_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		REFL_QPD_f1_G2_Q3_DC	REFL_QPD_f1_G2_Q3_DC	REFL_QPD_f1_G2_Q3_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
		REFL_QPD_f1_G2_Q4	REFL_QPD_f1_G2_Q4_I	REFL_QPD_f1_G2_Q4_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
REFL_QPD_f2_G1		REFL_QPD_f1_G2_Q4_DC	REFL_QPD_f1_G2_Q4_Q	REFL_QPD_f1_G2_Q4_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1		no	no
		REFL_QPD_f2_G1_Q1	REFL_QPD_f2_G1_Q1_I	REFL_QPD_f2_G1_Q1_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2			
		REFL_QPD_f2_G1_Q1_DC	REFL_QPD_f2_G1_Q1_Q	REFL_QPD_f2_G1_Q1_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2 DC Out			
		REFL_QPD_f2_G1_Q2	REFL_QPD_f2_G1_Q2_I	REFL_QPD_f2_G1_Q2_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2			
		REFL_QPD_f2_G1_Q2_DC	REFL_QPD_f2_G1_Q2_Q	REFL_QPD_f2_G1_Q2_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2 DC Out			
		REFL_QPD_f2_G1_Q3	REFL_QPD_f2_G1_Q3_I	REFL_QPD_f2_G1_Q3_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2			
		REFL_QPD_f2_G1_Q3_DC	REFL_QPD_f2_G1_Q3_Q	REFL_QPD_f2_G1_Q3_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2 DC Out			
		REFL_QPD_f2_G1_Q4	REFL_QPD_f2_G1_Q4_I	REFL_QPD_f2_G1_Q4_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2			
REFL_QPD_f2_G2		REFL_QPD_f2_G1_Q4_DC	REFL_QPD_f2_G1_Q4_Q	REFL_QPD_f2_G1_Q4_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2 DC Out		no	no
		REFL_QPD_f2_G2_Q1	REFL_QPD_f2_G2_Q1_I	REFL_QPD_f2_G2_Q1_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2			
		REFL_QPD_f2_G2_Q1_DC	REFL_QPD_f2_G2_Q1_Q	REFL_QPD_f2_G2_Q1_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2 DC Out			
		REFL_QPD_f2_G2_Q2	REFL_QPD_f2_G2_Q2_I	REFL_QPD_f2_G2_Q2_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2			
		REFL_QPD_f2_G2_Q2_DC	REFL_QPD_f2_G2_Q2_Q	REFL_QPD_f2_G2_Q2_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2 DC Out			
		REFL_QPD_f2_G2_Q3	REFL_QPD_f2_G2_Q3_I	REFL_QPD_f2_G2_Q3_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2			
		REFL_QPD_f2_G2_Q3_DC	REFL_QPD_f2_G2_Q3_Q	REFL_QPD_f2_G2_Q3_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2 DC Out			
		REFL_QPD_f2_G2_Q4	REFL_QPD_f2_G2_Q4_I	REFL_QPD_f2_G2_Q4_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2			
REFL_f1f3		REFL_QPD_f2_G2_Q4_DC	REFL_QPD_f2_G2_Q4_Q	REFL_QPD_f2_G2_Q4_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2 DC Out		no	no
		REFL_f1f3	REFL_f1f3_I	REFL_f1f3_I	RF PD	39.375MHz	1064nm		RF PD for non-resonant SB f3 - f1			
		REFL_f1f3_DC	REFL_f1f3_Q	REFL_f1f3_Q	RF PD	39.375MHz	1064nm		RF PD for non-resonant SB f3 - f1 DC Out			
REFL_f2f3		REFL_f2f3	REFL_f2f3_I	REFL_f2f3_I	RF PD	11.25MHz	1064nm		RF PD for non-resonant SB f3 - f2		no	no
		REFL_f2f3_DC	REFL_f2f3_Q	REFL_f2f3_Q	RF PD	11.25MHz	1064nm		RF PD for non-resonant SB f3 - f2 DC Out			
		REFL_f2f3_DC	REFL_f2f3_DC	REFL_f2f3_DC	RF PD	DC	1064nm		RF PD for non-resonant SB f3 - f2 DC Out			
POP_f1_HG		POP_f1_HG	POP_f1_HG_I	POP_f1_HG_I	RF PD	16.875MHz	1064nm		High Gain RF PD f1		no	no
		POP_f1_HG_DC	POP_f1_HG_Q	POP_f1_HG_Q	RF PD	16.875MHz	1064nm		High Gain RF PD f1 DC Out			
POP_f1_LG		POP_f1_LG	POP_f1_LG_I	POP_f1_LG_I	RF PD	16.875MHz	1064nm		Low Gain RF PD f1		no	no
		POP_f1_LG_DC	POP_f1_LG_Q	POP_f1_LG_Q	RF PD	16.875MHz	1064nm		Low Gain RF PD f1 DC Out			
POP_f2_HG		POP_f2_HG	POP_f2_HG_I	POP_f2_HG_I	RF PD	45MHz	1064nm		High Gain RF PD f1		no	no
		POP_f2_HG_DC	POP_f2_HG_Q	POP_f2_HG_Q	RF PD	45MHz	1064nm		High Gain RF PD f1 DC Out			
POP_f2_LG		POP_f2_LG	POP_f2_LG_I	POP_f2_LG_I	RF PD	45MHz	1064nm		Low Gain RF PD f1		no	no
		POP_f2_LG_DC	POP_f2_LG_Q	POP_f2_LG_Q	RF PD	45MHz	1064nm		Low Gain RF PD f1 DC Out			
SPOP1		SPOP1	SPOP1_I	SPOP1_I	RF PD	16.875MHz	1064nm		SB Power in PRC f1		no	yes
		SPOP1_DC	SPOP1_Q	SPOP1_Q	RF PD	16.875MHz	1064nm		SB Power in PRC f1 DC Out			
SPOP2		SPOP2	SPOP2_I	SPOP2_I	RF PD	45MHz	1064nm		SB Power in PRC f2		no	no
		SPOP2_DC	SPOP2_Q	SPOP2_Q	RF PD	45MHz	1064nm		SB Power in PRC f2 DC Out			
		POP_QPD_f1_G1_Q1	POP_QPD_f1_G1_Q1_I	POP_QPD_f1_G1_Q1_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		POP_QPD_f1_G1_Q1_DC	POP_QPD_f1_G1_Q1_Q	POP_QPD_f1_G1_Q1_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			

POP	POP_QPD_f1_G1	POP_QPD_f1_G1_Q2	POP_QPD_f1_G1_Q2_I	POP_QPD_f1_G1_Q2_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1		no	no
		POP_QPD_f1_G1_Q2_Q	POP_QPD_f1_G1_Q2_Q	POP_QPD_f1_G1_Q2_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		POP_QPD_f1_G1_Q2_DC	POP_QPD_f1_G1_Q2_DC	POP_QPD_f1_G1_Q2_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
		POP_QPD_f1_G1_Q3	POP_QPD_f1_G1_Q3_I	POP_QPD_f1_G1_Q3_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		POP_QPD_f1_G1_Q3_Q	POP_QPD_f1_G1_Q3_Q	POP_QPD_f1_G1_Q3_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		POP_QPD_f1_G1_Q3_DC	POP_QPD_f1_G1_Q3_DC	POP_QPD_f1_G1_Q3_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
	POP_QPD_f1_G2	POP_QPD_f1_G1_Q4_I	POP_QPD_f1_G1_Q4_I	POP_QPD_f1_G1_Q4_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1		no	no
		POP_QPD_f1_G1_Q4_Q	POP_QPD_f1_G1_Q4_Q	POP_QPD_f1_G1_Q4_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 1 f1			
		POP_QPD_f1_G1_Q4_DC	POP_QPD_f1_G1_Q4_DC	POP_QPD_f1_G1_Q4_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f1 DC Out			
		POP_QPD_f1_G2_Q1	POP_QPD_f1_G2_Q1_I	POP_QPD_f1_G2_Q1_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		POP_QPD_f1_G2_Q1_Q	POP_QPD_f1_G2_Q1_Q	POP_QPD_f1_G2_Q1_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		POP_QPD_f1_G2_Q1_DC	POP_QPD_f1_G2_Q1_DC	POP_QPD_f1_G2_Q1_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
	POP_QPD_f1_G2	POP_QPD_f1_G2_Q2	POP_QPD_f1_G2_Q2_I	POP_QPD_f1_G2_Q2_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1		no	no
		POP_QPD_f1_G2_Q2_Q	POP_QPD_f1_G2_Q2_Q	POP_QPD_f1_G2_Q2_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		POP_QPD_f1_G2_Q2_DC	POP_QPD_f1_G2_Q2_DC	POP_QPD_f1_G2_Q2_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
		POP_QPD_f1_G2_Q3	POP_QPD_f1_G2_Q3_I	POP_QPD_f1_G2_Q3_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		POP_QPD_f1_G2_Q3_Q	POP_QPD_f1_G2_Q3_Q	POP_QPD_f1_G2_Q3_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		POP_QPD_f1_G2_Q3_DC	POP_QPD_f1_G2_Q3_DC	POP_QPD_f1_G2_Q3_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
	POP_QPD_f1_G2	POP_QPD_f1_G2_Q4	POP_QPD_f1_G2_Q4_I	POP_QPD_f1_G2_Q4_I	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1		no	no
		POP_QPD_f1_G2_Q4_Q	POP_QPD_f1_G2_Q4_Q	POP_QPD_f1_G2_Q4_Q	RF QPD	16.875MHz	1064nm		RF QPD at Gouy Phase 2 f1			
		POP_QPD_f1_G2_Q4_DC	POP_QPD_f1_G2_Q4_DC	POP_QPD_f1_G2_Q4_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f1 DC Out			
		POP_QPD_f2_G1_Q1	POP_QPD_f2_G1_Q1_I	POP_QPD_f2_G1_Q1_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2			
		POP_QPD_f2_G1_Q1_Q	POP_QPD_f2_G1_Q1_Q	POP_QPD_f2_G1_Q1_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2			
		POP_QPD_f2_G1_Q1_DC	POP_QPD_f2_G1_Q1_DC	POP_QPD_f2_G1_Q1_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f2 DC Out			
	POP_QPD_f2_G1	POP_QPD_f2_G1_Q2	POP_QPD_f2_G1_Q2_I	POP_QPD_f2_G1_Q2_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2		no	no
		POP_QPD_f2_G1_Q2_Q	POP_QPD_f2_G1_Q2_Q	POP_QPD_f2_G1_Q2_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2			
		POP_QPD_f2_G1_Q2_DC	POP_QPD_f2_G1_Q2_DC	POP_QPD_f2_G1_Q2_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f2 DC Out			
		POP_QPD_f2_G1_Q3	POP_QPD_f2_G1_Q3_I	POP_QPD_f2_G1_Q3_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2			
		POP_QPD_f2_G1_Q3_Q	POP_QPD_f2_G1_Q3_Q	POP_QPD_f2_G1_Q3_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2			
		POP_QPD_f2_G1_Q3_DC	POP_QPD_f2_G1_Q3_DC	POP_QPD_f2_G1_Q3_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f2 DC Out			
	POP_QPD_f2_G1	POP_QPD_f2_G1_Q4	POP_QPD_f2_G1_Q4_I	POP_QPD_f2_G1_Q4_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2		no	no
		POP_QPD_f2_G1_Q4_Q	POP_QPD_f2_G1_Q4_Q	POP_QPD_f2_G1_Q4_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 1 f2			
		POP_QPD_f2_G1_Q4_DC	POP_QPD_f2_G1_Q4_DC	POP_QPD_f2_G1_Q4_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 1 f2 DC Out			
		POP_QPD_f2_G2_Q1	POP_QPD_f2_G2_Q1_I	POP_QPD_f2_G2_Q1_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2			
		POP_QPD_f2_G2_Q1_Q	POP_QPD_f2_G2_Q1_Q	POP_QPD_f2_G2_Q1_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2			
		POP_QPD_f2_G2_Q1_DC	POP_QPD_f2_G2_Q1_DC	POP_QPD_f2_G2_Q1_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f2 DC Out			
	POP_QPD_f2_G2	POP_QPD_f2_G2_Q2	POP_QPD_f2_G2_Q2_I	POP_QPD_f2_G2_Q2_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2		no	no
		POP_QPD_f2_G2_Q2_Q	POP_QPD_f2_G2_Q2_Q	POP_QPD_f2_G2_Q2_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2			
		POP_QPD_f2_G2_Q2_DC	POP_QPD_f2_G2_Q2_DC	POP_QPD_f2_G2_Q2_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f2 DC Out			
		POP_QPD_f2_G2_Q3	POP_QPD_f2_G2_Q3_I	POP_QPD_f2_G2_Q3_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2			
		POP_QPD_f2_G2_Q3_Q	POP_QPD_f2_G2_Q3_Q	POP_QPD_f2_G2_Q3_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2			
		POP_QPD_f2_G2_Q3_DC	POP_QPD_f2_G2_Q3_DC	POP_QPD_f2_G2_Q3_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f2 DC Out			
	POP_QPD_f2_G2	POP_QPD_f2_G2_Q4	POP_QPD_f2_G2_Q4_I	POP_QPD_f2_G2_Q4_I	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2		no	no
		POP_QPD_f2_G2_Q4_Q	POP_QPD_f2_G2_Q4_Q	POP_QPD_f2_G2_Q4_Q	RF QPD	45MHz	1064nm		RF QPD at Gouy Phase 2 f2			
		POP_QPD_f2_G2_Q4_DC	POP_QPD_f2_G2_Q4_DC	POP_QPD_f2_G2_Q4_DC	RF QPD	DC	1064nm		RF QPD at Gouy Phase 2 f2 DC Out			
		POP_GR1_I	POP_GR1_I	POP_GR1_I	RF PD	16MHz	1064nm		RF PD for Green Lock			
		POP_GR1_Q	POP_GR1_Q	POP_GR1_Q	RF PD	16MHz	1064nm		RF PD for Green Lock			
		POP_GR1_DC	POP_GR1_DC	POP_GR1_DC	RF PD	DC	1064nm		RF PD for Green Lock DC Out			
POS	SPOS1	SPOS1	SPOS1_I	SPOS1_I	RF PD	33.75MHz	1064nm		SB Power in SRC f1		no	no
		SPOS1_Q	SPOS1_Q	SPOS1_Q	RF PD	33.75MHz	1064nm		SB Power in SRC f1			
	SPOS1	SPOS1	SPOS1_I	SPOS1_I	RF PD	33.75MHz	1064nm		SB Power in SRC f1		no	no
		SPOS1_Q	SPOS1_Q	SPOS1_Q	RF PD	33.75MHz	1064nm		SB Power in SRC f1			
	SPOS2	SPOS2	SPOS2_I	SPOS2_I	RF PD	90MHz	1064nm		SB Power in SRC f2		no	no
		SPOS2_Q	SPOS2_Q	SPOS2_Q	RF PD	90MHz	1064nm		SB Power in SRC f2			
	POS_GR1	SPOS2_DC	SPOS2_DC	SPOS2_DC	RF PD	DC	1064nm		SB Power in SRC f2 DC Out		no	no
		POS_GR1_I	POS_GR1_I	POS_GR1_I	RF PD	17MHz	1064nm		RF PD for Green Lock			
	POS_GR1	POS_GR1_Q	POS_GR1_Q	POS_GR1_Q	RF PD	17MHz	1064nm		RF PD for Green Lock		no	no
		POS_GR1_DC	POS_GR1_DC	POS_GR1_DC	RF PD	DC	1064nm		RF PD for Green Lock DC Out			
POV	POX_f1_HG	POX_f1_HG	POX_f1_HG_I	POX_f1_HG_I	RF PD	16.875MHz	1064nm		High Gain RF PD f1		no	no
		POX_f1_HG_Q	POX_f1_HG_Q	POX_f1_HG_Q	RF PD	16.875MHz	1064nm		High Gain RF PD f1			
		POX_f1_HG_DC	POX_f1_HG_DC	POX_f1_HG_DC	RF PD	DC	1064nm		High Gain RF PD f1 DC Out			
	POX_f1_LG	POX_f1_LG	POX_f1_LG_I	POX_f1_LG_I	RF PD	16.875MHz	1064nm		Low Gain RF PD f1		no	no
		POX_f1_LG_Q	POX_f1_LG_Q	POX_f1_LG_Q	RF PD	16.875MHz	1064nm		Low Gain RF PD f1			
		POX_f1_LG_DC	POX_f1_LG_DC	POX_f1_LG_DC	RF PD	DC	1064nm		Low Gain RF PD f1 DC Out			

POX	POX_f2_HG	POX_f2_HG	POX_f2_HG_I	POX_f2_HG_I	RF PD	45MHz	1064nm		High Gain RF PD f1		no	no
		POX_f2_HG_DC	POX_f2_HG_Q	POX_f2_HG_Q	RF PD	45MHz	1064nm		High Gain RF PD f1			
	POX_f2_LG	POX_f2_LG	POX_f2_LG_I	POX_f2_LG_I	RF PD	45MHz	1064nm		Low Gain RF PD f1		no	no
		POX_f2_LG_DC	POX_f2_LG_Q	POX_f2_LG_Q	RF PD	45MHz	1064nm		Low Gain RF PD f1 DC Out			
POY	POY_f1_HG	POY_f1_HG	POY_f1_HG_I	POY_f1_HG_I	RF PD	16.875MHz	1064nm		High Gain RF PD f1		no	no
		POY_f1_HG_Q	POY_f1_HG_Q	POY_f1_HG_Q	RF PD	16.875MHz	1064nm		High Gain RF PD f1			
		POY_f1_HG_DC	POY_f1_HG_DC	POY_f1_HG_DC	RF PD	DC	1064nm		High Gain RF PD f1 DC Out			
	POY_f1_LG	POY_f1_LG	POY_f1_LG_I	POY_f1_LG_I	RF PD	16.875MHz	1064nm		Low Gain RF PD f1		no	no
		POY_f1_LG_Q	POY_f1_LG_Q	POY_f1_LG_Q	RF PD	16.875MHz	1064nm		Low Gain RF PD f1			
	POY_f1_LG_DC	POY_f1_LG_DC	POY_f1_LG_DC	POY_f1_LG_DC	RF PD	DC	1064nm		Low Gain RF PD f1 DC Out			
	POY_f2_HG	POY_f2_HG	POY_f2_HG_I	POY_f2_HG_I	RF PD	45MHz	1064nm		High Gain RF PD f1		no	no
		POY_f2_HG_Q	POY_f2_HG_Q	POY_f2_HG_Q	RF PD	45MHz	1064nm		High Gain RF PD f1 DC Out			
TRX	TRX_QPD1_HG	TRX_QPD1_HG_Q1	TRX_QPD1_HG_Q1	TRX_QPD1_HG_Q1	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor		no	yes
		TRX_QPD1_HG_Q2	TRX_QPD1_HG_Q2	TRX_QPD1_HG_Q2	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
		TRX_QPD1_HG_Q3	TRX_QPD1_HG_Q3	TRX_QPD1_HG_Q3	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
		TRX_QPD1_HG_Q4	TRX_QPD1_HG_Q4	TRX_QPD1_HG_Q4	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
	TRX_QPD1_LG	TRX_QPD1_LG_Q1	TRX_QPD1_LG_Q1	TRX_QPD1_LG_Q1	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor		no	no
		TRX_QPD1_LG_Q2	TRX_QPD1_LG_Q2	TRX_QPD1_LG_Q2	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
		TRX_QPD1_LG_Q3	TRX_QPD1_LG_Q3	TRX_QPD1_LG_Q3	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
		TRX_QPD1_LG_Q4	TRX_QPD1_LG_Q4	TRX_QPD1_LG_Q4	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
	TRX_QPD2_HG	TRX_QPD2_HG_Q1	TRX_QPD2_HG_Q1	TRX_QPD2_HG_Q1	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor		no	no
		TRX_QPD2_HG_Q2	TRX_QPD2_HG_Q2	TRX_QPD2_HG_Q2	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
		TRX_QPD2_HG_Q3	TRX_QPD2_HG_Q3	TRX_QPD2_HG_Q3	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
		TRX_QPD2_HG_Q4	TRX_QPD2_HG_Q4	TRX_QPD2_HG_Q4	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
	TRX_QPD2_LG	TRX_QPD2_LG_Q1	TRX_QPD2_LG_Q1	TRX_QPD2_LG_Q1	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor		no	no
		TRX_QPD2_LG_Q2	TRX_QPD2_LG_Q2	TRX_QPD2_LG_Q2	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
		TRX_QPD2_LG_Q3	TRX_QPD2_LG_Q3	TRX_QPD2_LG_Q3	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
		TRX_QPD2_LG_Q4	TRX_QPD2_LG_Q4	TRX_QPD2_LG_Q4	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
	TRX_QPD1_GR	TRX_QPD1_GR_Q1	TRX_QPD1_GR_Q1	TRX_QPD1_GR_Q1	DC QPD	DC	532nm		DC QPD1 for Green		no	no
		TRX_QPD1_GR_Q2	TRX_QPD1_GR_Q2	TRX_QPD1_GR_Q2	DC QPD	DC	532nm		DC QPD1 for Green			
		TRX_QPD1_GR_Q3	TRX_QPD1_GR_Q3	TRX_QPD1_GR_Q3	DC QPD	DC	532nm		DC QPD1 for Green			
		TRX_QPD1_GR_Q4	TRX_QPD1_GR_Q4	TRX_QPD1_GR_Q4	DC QPD	DC	532nm		DC QPD1 for Green			
	TRX_QPD2_GR	TRX_QPD2_GR_Q1	TRX_QPD2_GR_Q1	TRX_QPD2_GR_Q1	DC QPD	DC	532nm		DC QPD2 for Green		no	no
		TRX_QPD2_GR_Q2	TRX_QPD2_GR_Q2	TRX_QPD2_GR_Q2	DC QPD	DC	532nm		DC QPD2 for Green			
		TRX_QPD2_GR_Q3	TRX_QPD2_GR_Q3	TRX_QPD2_GR_Q3	DC QPD	DC	532nm		DC QPD2 for Green			
		TRX_QPD2_GR_Q4	TRX_QPD2_GR_Q4	TRX_QPD2_GR_Q4	DC QPD	DC	532nm		DC QPD2 for Green			
TRY	TRY_QPD1_HG	TRY_QPD1_HG_Q1	TRY_QPD1_HG_Q1	TRY_QPD1_HG_Q1	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor		no	yes
		TRY_QPD1_HG_Q2	TRY_QPD1_HG_Q2	TRY_QPD1_HG_Q2	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
		TRY_QPD1_HG_Q3	TRY_QPD1_HG_Q3	TRY_QPD1_HG_Q3	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
		TRY_QPD1_HG_Q4	TRY_QPD1_HG_Q4	TRY_QPD1_HG_Q4	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
	TRY_QPD1_LG	TRY_QPD1_LG_Q1	TRY_QPD1_LG_Q1	TRY_QPD1_LG_Q1	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor		no	no
		TRY_QPD1_LG_Q2	TRY_QPD1_LG_Q2	TRY_QPD1_LG_Q2	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
		TRY_QPD1_LG_Q3	TRY_QPD1_LG_Q3	TRY_QPD1_LG_Q3	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
		TRY_QPD1_LG_Q4	TRY_QPD1_LG_Q4	TRY_QPD1_LG_Q4	DC QPD	DC	1064nm		DC QPD1 for TR Beam Monitor			
	TRY_QPD2_HG	TRY_QPD2_HG_Q1	TRY_QPD2_HG_Q1	TRY_QPD2_HG_Q1	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor		no	no
		TRY_QPD2_HG_Q2	TRY_QPD2_HG_Q2	TRY_QPD2_HG_Q2	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
		TRY_QPD2_HG_Q3	TRY_QPD2_HG_Q3	TRY_QPD2_HG_Q3	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
		TRY_QPD2_HG_Q4	TRY_QPD2_HG_Q4	TRY_QPD2_HG_Q4	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
	TRY_QPD2_LG	TRY_QPD2_LG_Q1	TRY_QPD2_LG_Q1	TRY_QPD2_LG_Q1	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor		no	no
		TRY_QPD2_LG_Q2	TRY_QPD2_LG_Q2	TRY_QPD2_LG_Q2	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
		TRY_QPD2_LG_Q3	TRY_QPD2_LG_Q3	TRY_QPD2_LG_Q3	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
		TRY_QPD2_LG_Q4	TRY_QPD2_LG_Q4	TRY_QPD2_LG_Q4	DC QPD	DC	1064nm		DC QPD2 for TR Beam Monitor			
	TRY_QPD1_GR	TRY_QPD1_GR_Q1	TRY_QPD1_GR_Q1	TRY_QPD1_GR_Q1	DC QPD	DC	532nm		DC QPD1 for Green		no	no
		TRY_QPD1_GR_Q2	TRY_QPD1_GR_Q2	TRY_QPD1_GR_Q2	DC QPD	DC	532nm		DC QPD1 for Green			
		TRY_QPD1_GR_Q3	TRY_QPD1_GR_Q3	TRY_QPD1_GR_Q3	DC QPD	DC	532nm		DC QPD1 for Green			
		TRY_QPD1_GR_Q4	TRY_QPD1_GR_Q4	TRY_QPD1_GR_Q4	DC QPD	DC	532nm		DC QPD1 for Green			
	TRY_QPD2_GR	TRY_QPD2_GR_Q1	TRY_QPD2_GR_Q1	TRY_QPD2_GR_Q1	DC QPD	DC	532nm		DC QPD2 for Green		no	no
		TRY_QPD2_GR_Q2	TRY_QPD2_GR_Q2	TRY_QPD2_GR_Q2	DC QPD	DC	532nm		DC QPD2 for Green			
		TRY_QPD2_GR_Q3	TRY_QPD2_GR_Q3	TRY_QPD2_GR_Q3	DC QPD	DC	532nm		DC QPD2 for Green			

		TRY_QPD2_GR_Q4	TRY_QPD2_GR_Q4	TRY_QPD2_GR_Q4	DC QPD	DC	532nm		DC QPD2 for Green			
MCT	MCT_QPD_HG	MCT_QPD_HG_Q1	MCT_QPD_HG_Q1	MCT_QPD_HG_Q1	DC QPD	DC	1064nm		DC QPD for MCT		no	yes
		MCT_QPD_HG_Q2	MCT_QPD_HG_Q2	MCT_QPD_HG_Q2	DC QPD	DC	1064nm		DC QPD for MCT			
		MCT_QPD_HG_Q3	MCT_QPD_HG_Q3	MCT_QPD_HG_Q3	DC QPD	DC	1064nm		DC QPD for MCT			
		MCT_QPD_HG_Q4	MCT_QPD_HG_Q4	MCT_QPD_HG_Q4	DC QPD	DC	1064nm		DC QPD for MCT			
	MCT_QPD_LG	MCT_QPD_LG_Q1	MCT_QPD_LG_Q1	MCT_QPD_LG_Q1	DC QPD	DC	1064nm		DC QPD for MCT		no	yes
		MCT_QPD_LG_Q2	MCT_QPD_LG_Q2	MCT_QPD_LG_Q2	DC QPD	DC	1064nm		DC QPD for MCT			
		MCT_QPD_LG_Q3	MCT_QPD_LG_Q3	MCT_QPD_LG_Q3	DC QPD	DC	1064nm		DC QPD for MCT			
		MCT_QPD_LG_Q4	MCT_QPD_LG_Q4	MCT_QPD_LG_Q4	DC QPD	DC	1064nm		DC QPD for MCT			
MCR	MCR_PD_HG	MCT_PD1_HG	MCT_PD1_HG	MCT_PD1_HG	DC PD	DC	1064nm		DC PD for MC Trans. High Gain		no	yes
		MCT_PD1_LG	MCT_PD1_LG	MCT_PD1_LG	DC PD	DC	1064nm		DC PD for MC Trans. Low Gain		no	yes
	MCR_PD_LG	MCR_PD_HG	MCR_PD_HG_I	MCR_PD_HG_I	RF PD	15MHz	1064nm		RF PD for MC lock		no	yes
		MCR_PD_HG_DC	MCR_PD_HG_Q	MCR_PD_HG_Q	RF PD	15MHz	1064nm		RF PD for MC lock			
		MCR_PD_LG	MCR_PD_LG_I	MCR_PD_LG_I	RF PD	15MHz	1064nm		RF PD for MC lock			
	MCR_QPD_G1	MCR_PD_LG_DC	MCR_PD_LG_Q	MCR_PD_LG_Q	RF PD	15MHz	1064nm		RF PD for MC lock		no	yes
		MCR_QPD_G1_Q1	MCR_QPD_G1_Q1_I	MCR_QPD_G1_Q1_I	RF QPD	15MHz	1064nm		RF QPD for MC WFS			
		MCR_QPD_G1_Q1_DC	MCR_QPD_G1_Q1_Q	MCR_QPD_G1_Q1_Q	RF QPD	15MHz	1064nm		RF QPD for MC WFS DC Out			
		MCR_QPD_G1_Q2	MCR_QPD_G1_Q2_I	MCR_QPD_G1_Q2_I	RF QPD	15MHz	1064nm		RF QPD for MC WFS			
		MCR_QPD_G1_Q2_DC	MCR_QPD_G1_Q2_Q	MCR_QPD_G1_Q2_Q	RF QPD	15MHz	1064nm		RF QPD for MC WFS DC Out			
		MCR_QPD_G1_Q3	MCR_QPD_G1_Q3_I	MCR_QPD_G1_Q3_I	RF QPD	15MHz	1064nm		RF QPD for MC WFS			
		MCR_QPD_G1_Q3_DC	MCR_QPD_G1_Q3_Q	MCR_QPD_G1_Q3_Q	RF QPD	15MHz	1064nm		RF QPD for MC WFS DC Out			
		MCR_QPD_G1_Q4	MCR_QPD_G1_Q4_I	MCR_QPD_G1_Q4_I	RF QPD	15MHz	1064nm		RF QPD for MC WFS			
		MCR_QPD_G1_Q4_DC	MCR_QPD_G1_Q4_Q	MCR_QPD_G1_Q4_Q	RF QPD	15MHz	1064nm		RF QPD for MC WFS DC Out			
		MCR_QPD_G2_Q1	MCR_QPD_G2_Q1_I	MCR_QPD_G2_Q1_I	RF QPD	15MHz	1064nm		RF QPD for MC WFS		no	yes
	MCR_QPD_G2	MCR_QPD_G2_Q1_DC	MCR_QPD_G2_Q1_Q	MCR_QPD_G2_Q1_Q	RF QPD	15MHz	1064nm		RF QPD for MC WFS DC Out			
		MCR_QPD_G2_Q2	MCR_QPD_G2_Q2_I	MCR_QPD_G2_Q2_I	RF QPD	15MHz	1064nm		RF QPD for MC WFS			
		MCR_QPD_G2_Q2_DC	MCR_QPD_G2_Q2_Q	MCR_QPD_G2_Q2_Q	RF QPD	15MHz	1064nm		RF QPD for MC WFS DC Out			
		MCR_QPD_G2_Q3	MCR_QPD_G2_Q3_I	MCR_QPD_G2_Q3_I	RF QPD	15MHz	1064nm		RF QPD for MC WFS			
		MCR_QPD_G2_Q3_DC	MCR_QPD_G2_Q3_Q	MCR_QPD_G2_Q3_Q	RF QPD	15MHz	1064nm		RF QPD for MC WFS DC Out			
		MCR_QPD_G2_Q4	MCR_QPD_G2_Q4_I	MCR_QPD_G2_Q4_I	RF QPD	15MHz	1064nm		RF QPD for MC WFS			
		MCR_QPD_G2_Q4_DC	MCR_QPD_G2_Q4_Q	MCR_QPD_G2_Q4_Q	RF QPD	15MHz	1064nm		RF QPD for MC WFS DC Out			
		IMMT1T_DCPD_HG	IMMT1T_DCPD_HG	IMMT1T_DCPD_HG	DC PD	DC	1064nm		DC PD for Intensity Stabilization		no	yes
	IMMT1T_QPD1	IMMT1T_DCPD_LG	IMMT1T_DCPD_LG	IMMT1T_DCPD_LG	DC PD	DC	1064nm		DC PD for Intensity Stabilization		no	yes
		IMMT1T_QPD1_Q1	IMMT1T_QPD1_Q1	IMMT1T_QPD1_Q1	DC QPD	DC	1064nm		DC QPD1 for beam monitor		no	yes
		IMMT1T_QPD1_Q2	IMMT1T_QPD1_Q2	IMMT1T_QPD1_Q2	DC QPD	DC	1064nm		DC QPD1 for beam monitor			
		IMMT1T_QPD1_Q3	IMMT1T_QPD1_Q3	IMMT1T_QPD1_Q3	DC QPD	DC	1064nm		DC QPD1 for beam monitor			
		IMMT1T_QPD1_Q4	IMMT1T_QPD1_Q4	IMMT1T_QPD1_Q4	DC QPD	DC	1064nm		DC QPD1 for beam monitor			
	IMMT1T_QPD2	IMMT1T_QPD2_Q1	IMMT1T_QPD2_Q1	IMMT1T_QPD2_Q1	DC QPD	DC	1064nm		DC QPD2 for beam monitor		no	yes
		IMMT1T_QPD2_Q2	IMMT1T_QPD2_Q2	IMMT1T_QPD2_Q2	DC QPD	DC	1064nm		DC QPD2 for beam monitor			
		IMMT1T_QPD2_Q3	IMMT1T_QPD2_Q3	IMMT1T_QPD2_Q3	DC QPD	DC	1064nm		DC QPD2 for beam monitor			
		IMMT1T_QPD2_Q4	IMMT1T_QPD2_Q4	IMMT1T_QPD2_Q4	DC QPD	DC	1064nm		DC QPD2 for beam monitor			
IMMT2T	IMMT2T_f1	IMMT2T_f1_I	IMMT2T_f1_I	IMMT2T_f1_I	RF PD	16.875MHz	1064nm		RF PD for RFAM Monitor		no	yes
		IMMT2T_f1_Q	IMMT2T_f1_Q	IMMT2T_f1_Q	RF PD	16.875MHz	1064nm		RF PD for RFAM Monitor			
		IMMT2T_f1_DC	IMMT2T_f1_DC	IMMT2T_f1_DC	RF PD	DC	1064nm		RF PD for RFAM Monitor DC Out			
	IMMT2T_f2	IMMT2T_f2_I	IMMT2T_f2_I	IMMT2T_f2_I	RF PD	45MHz	1064nm		RF PD for RFAM Monitor		no	yes
		IMMT2T_f2_Q	IMMT2T_f2_Q	IMMT2T_f2_Q	RF PD	45MHz	1064nm		RF PD for RFAM Monitor			
		IMMT2T_f2_DC	IMMT2T_f2_DC	IMMT2T_f2_DC	RF PD	DC	1064nm		RF PD for RFAM Monitor DC Out			
	IMMT2T_QPD1	IMMT2T_QPD1_Q1	IMMT2T_QPD1_Q1	IMMT2T_QPD1_Q1	DC QPD	DC	1064nm		DC QPD1 for beam monitor		no	yes
		IMMT2T_QPD1_Q2	IMMT2T_QPD1_Q2	IMMT2T_QPD1_Q2	DC QPD	DC	1064nm		DC QPD1 for beam monitor			
		IMMT2T_QPD1_Q3	IMMT2T_QPD1_Q3	IMMT2T_QPD1_Q3	DC QPD	DC	1064nm		DC QPD1 for beam monitor			
		IMMT2T_QPD1_Q4	IMMT2T_QPD1_Q4	IMMT2T_QPD1_Q4	DC QPD	DC	1064nm		DC QPD1 for beam monitor			
	IMMT2T_QPD2	IMMT2T_QPD2_Q1	IMMT2T_QPD2_Q1	IMMT2T_QPD2_Q1	DC QPD	DC	1064nm		DC QPD2 for beam monitor		no	yes
		IMMT2T_QPD2_Q2	IMMT2T_QPD2_Q2	IMMT2T_QPD2_Q2	DC QPD	DC	1064nm		DC QPD2 for beam monitor			
		IMMT2T_QPD2_Q3	IMMT2T_QPD2_Q3	IMMT2T_QPD2_Q3	DC QPD	DC	1064nm		DC QPD2 for beam monitor			
		IMMT2T_QPD2_Q4	IMMT2T_QPD2_Q4	IMMT2T_QPD2_Q4	DC QPD	DC	1064nm		DC QPD2 for beam monitor			

REFCAV_REFL	REFCAV_REFL_PD1	REFCAV_REFL_PD1	REFCAV_REFL_PD1_I	REFCAV_REFL_PD1_I	RF PD	24MHz	1064nm		Reference Cavity PDH		no	yes
		REFCAV_REFL_PD1_Q	REFCAV_REFL_PD1_Q	REFCAV_REFL_PD1_Q	RF PD	24MHz	1064nm		Reference Cavity PDH			
REFCAV_TR	REFCAV_TR_PD1	REFCAV_REFL_PD1_DC	REFCAV_REFL_PD1_DC	REFCAV_REFL_PD1_DC	RF PD	DC	1064nm		Reference Cavity PDH DC Out		no	yes
		REFCAV_TR_PD1	REFCAV_TR_PD1	REFCAV_TR_PD1	DC PD	DC	1064nm		Reference Cavity Trans.			
PMC_REFL	PMC_REFL_PD1	PMC_REFL_PD1	PMC_REFL_PD1_I	PMC_REFL_PD1_I	RF PD	19MHz	1064nm		PMC PDH		no	yes
		PMC_REFL_PD1_Q	PMC_REFL_PD1_Q	PMC_REFL_PD1_Q	RF PD	19MHz	1064nm		PMC PDH			
PMC_TR	PMC_TR_PD1	PMC_REFL_PD1_DC	PMC_REFL_PD1_DC	PMC_REFL_PD1_DC	RF PD	DC	1064nm		PMC PDH DC Out		no	yes
		PMC_TR_PD1	PMC_TR_PD1	PMC_TR_PD1	DC PD	DC	1064nm		PMC Trans.			
BENCH_OUT	BENCH_OUT_QPD1	BENCH_OUT_QPD1_Q1	BENCH_OUT_QPD1_Q1	BENCH_OUT_QPD1_Q1	DC QPD	DC	1064nm		QPD for monitor the beam pointing at the output of injection bench		no	yes
		BENCH_OUT_QPD1_Q2	BENCH_OUT_QPD1_Q2	BENCH_OUT_QPD1_Q2	DC QPD	DC	1064nm		QPD for monitor the beam pointing at the output of injection bench			
		BENCH_OUT_QPD1_Q3	BENCH_OUT_QPD1_Q3	BENCH_OUT_QPD1_Q3	DC QPD	DC	1064nm		QPD for monitor the beam pointing at the output of injection bench			
		BENCH_OUT_QPD1_Q4	BENCH_OUT_QPD1_Q4	BENCH_OUT_QPD1_Q4	DC QPD	DC	1064nm		QPD for monitor the beam pointing at the output of injection bench			
	BENCH_OUT_QPD2	BENCH_OUT_QPD2_Q1	BENCH_OUT_QPD2_Q1	BENCH_OUT_QPD2_Q1	DC QPD	DC	1064nm		To monitor the beam position at the output of injection bench		no	yes
		BENCH_OUT_QPD2_Q2	BENCH_OUT_QPD2_Q2	BENCH_OUT_QPD2_Q2	DC QPD	DC	1064nm		To monitor the beam position at the output of injection bench			
		BENCH_OUT_QPD2_Q3	BENCH_OUT_QPD2_Q3	BENCH_OUT_QPD2_Q3	DC QPD	DC	1064nm		To monitor the beam position at the output of injection bench			
		BENCH_OUT_QPD2_Q4	BENCH_OUT_QPD2_Q4	BENCH_OUT_QPD2_Q4	DC QPD	DC	1064nm		To monitor the beam position at the output of injection bench			

Statistics					
Number of PDs					
PD Type	Frequency	Wavelength	Qty.	Sub Total	iKAGRA
RF PD	16.875MHz	1064nm	12	31	5
RF PD	45MHz	1064nm	10		1
RF PD	39.375MHz	1064nm	1		0
RF PD	11.25MHz	1064nm	1		0
RF PD	33.75MHz	1064nm	2		0
RF PD	90MHz	1064nm	1		0
RF PD	15MHz	1064nm	2		2
RF PD	24MHz	1064nm	1		1
RF PD	19MHz	1064nm	1		1
RF PD	16MHz	532nm	0	2	0
RF PD	17MHz	532nm	0		0
RF QPD	15MHz	1064nm	2	12	2
RF QPD	16.875MHz	1064nm	6		0
RF QPD	45MHz	1064nm	4		0
DC PD	DC	1064nm	8	8	6
DC QPD	DC	1064nm	18	18	10
DC QPD	DC	532nm	4	4	0
Total			75		

I-Q Demodulators			
Type	Frequency	Qty.	iKAGRA
Dual	16.875MHz	12	5
Dual	45MHz	10	1
Dual	39.375MHz	1	0
Dual	11.25MHz	1	0
Dual	33.75MHz	2	0
Dual	90MHz	1	0
Dual	15MHz	2	2
Dual	24MHz	1	1
Dual	19MHz	1	1
Dual	16MHz	1	0
Dual	17MHz	1	0
Quad	16.875MHz	6	0
Quad	45MHz	4	0
Quad	39.375MHz	0	0
Quad	11.25MHz	0	0
Quad	33.75MHz	0	0
Quad	90MHz	0	0
Quad	15MHz	2	2
Quad	24MHz	0	0
Quad	19MHz	0	0
Quad	16MHz	0	0
Quad	17MHz	0	0
Total		45	

Number of Whitening Filter Channels	338
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Parameters	
f1 Frequency	16.875MHz
f2 Frequency	45MHz
f3 Frequency	56.25MHz
f3 -f1	39.375MHz
f3 - f2	11.25MHz
f1 x 2	33.75MHz
f2 x 2	90MHz
Green X RFSB Freq.	16MHz
Green Y RFSB Freq.	17MHz
MC RFSB Frequency	15MHz
Ref. Cav. RFSB Freq.	24MHz
PMC RFSB Freq.	19MHz