

Cryostat	radiation from upper stages	*	10mW	VA	VI	CR	IF
Cryostat	radiation from BS chamber	*	10mW	VA		CR	IF
Cryostat	radiation from arm cavity	*	10mW	VA		CR	IF
Cryostat	heat from radiation shield	*	100mW	VA		CR	IF
Cryostat	heat from scattering light	*	0mW	VA		CR	IF
Cryostat	heat from view ports	*	10mW	VA		CR	IF
Cryostat	heat link thermal conductivity at 10K		4kW/m/K		VI	CR	
Cryostat	number of view ports		1	VA		CR	IF
Cryostat	cooling time		1week	VA		CR	IF
Cryostat	warming up time		1month	VA		CR	IF
Cryostat	vibration at cryostat	TBD		TU FA	VA	VI	CR
Cryostat	cryostat resonant frequency		30Hz	VA	VI	CR	
Cryostat	inner shield temeprature		8K	VA	VI	CR	IF
Cryostat	duct shield temperature		80K	VA	VI	CR	IF
Cryostat	duct emissivity		0.03	VA		CR	
Digital	ADC noise		3uV/rtHz			IF	DG EL
Digital	DAC noise		3uV/rtHz			IF	DG EL
Digital	sampling frequency		16384Hz			IF	DG EL
Digital	observation bandwidth		5kHz			IF	DG EL
Digital	control bandwidth		200Hz			IF	DG EL
Digital	time delay		100usec			IF	DG EL
Digital	ADC dynamic range		15V			DG	EL
Digital	DAC dynamic range		10V			DG	EL
Digital	AA filter noise level		0.1uV/rtHz			DG	EL
Digital	AI filter noise level		0.1uV/rtHz			DG	EL
Digital	whitening filter noise level		1nV/rtHz			DG	EL
Digital	dewhitening fileter noise level		1nV/rtHz			DG	EL
Digital	connector		D-sub 9pin			DG	EL
Electronics	accuracy of 90deg for I&Q LO	*	1%			IF	EL
Electronics	RF PD aperture (high power)	*	3mm			IF	EL
Electronics	RF PD aperture (low power)	*	3mm			IF	EL
Electronics	DC PD aperture (high power)	*	3mm			IF	EL
Electronics	DC PD aperture (low power)	*	3mm			IF	EL
Electronics	RF PD input power (high power)	*	300mW			IF	EL
Electronics	RF PD input power (low power)	*	100mW			IF	EL
Electronics	DC PD input power (high power)	*	100mW			IF	EL
Electronics	DC PD input power (low power)	*	10mW			IF	EL

Electronics	RF HOM suppression at LO distributor	TBD		IF	EL
Electronics	DC power supply	24V		IF	DG EL
Electronics	power supply cable selection	TBD		IF	DG EL
Electronics	power supply connector selection	TBD		IF	DG EL
Electronics	AC cable selection	100V / AWG14 triplet		IF	DG EL
Electronics	AC connector selection	D-sub		IF	DG EL
Electronics	RF cable selection	co-axial		IF	DG EL
Electronics	RF connector selection	SMA		IF	DG EL
Facility	tunnel width/height	TUN	4m	TU	FA VA
Facility	tunnel tilt	TUN	1/300	TU	FA VA
Facility	chamber room size (2nd floor)	TUN	8m x 12m	TU	FA VA
Facility	chamber room size (1st floor)	TUN	20m x 12m	TU	FA VA
Facility	flange flatness	VAC	0.1mm		VA
Facility	flange thickness	VAC	30mm		VA
Facility	vacuum level	VAC	2e-7Pa	FA	VA
Facility	duct height from floor	VAC	1.2m from the floor	FA	VA
Facility	duct diameter	VAC	80cm	FA	VA
Facility	position of chambers	VAC	(see MIF doc)	FA	VA
Facility	number of pumps	VAC	10 per arm	FA	VA
Facility	pumping speed of ion pump	VAC	1000L/s	FA	VA
Facility	pumping speed of turbo pump	VAC	2000L/s	FA	VA
Facility	number of gate valves	VAC	2 per arm (both ends)	FA	VA
Facility	number of vacuum monitors	VAC	TBD	FA	VA
Facility	room temperature	FAC	289K	FA	
Facility	laser room cleanliness	FAC	CLASS 100	FA	
Facility	room cleanliness	FAC	CLASS 1000	FA	
Facility	cleanliness for chamber working	FAC	CLASS 100	FA	
Facility	cleanliness of cryostat body (?)	CRY	CLASS 10000	FA	
Facility	noise level of accelerometers	PEM	TBD	FA	
Facility	noise level of tilt meters	PEM	TBD	FA	
HL (IM-RM)	material		6N Aluminum	VI	CR
HL (IM-RM)	number		TBD	VI	CR
HL (IM-RM)	length		TBD	VI	CR
HL (IM-RM)	spring constant		TBD	VI	CR
HL (IM-RM)	diameter		TBD	VI	CR
HL (IM-RM)	loss		TBD	VI	CR
HL (PF-IM)	material		6N Aluminum	VI	CR

HL (PF-IM)	number	TBD	VI	CR	
HL (PF-IM)	length	TBD	VI	CR	
HL (PF-IM)	spring constant	TBD	VI	CR	
HL (PF-IM)	diameter	TBD	VI	CR	
HL (PF-IM)	loss	TBD	VI	CR	
IM	actuator power on IM	TBD	VI	IF	EL
IM	mass of IM	60kg	VI	CR	
IM	material	Cu	VI	CR	
IM	dimension	310x200x110 mm	VI	CR	
IM	temperature of IM	10K	VI	CR	
IM	emmissivity of surface of IM	*	0.02	VI	CR
IM	spacific heat of IM	TBD	VI	CR	
IM	thermal conuductivity of IM	TBD	VI	CR	
IM	local sensor for IM	TBD	VI	CR	EL
IM	local control for IM	TBD	VI	CR	EL
IM	RRR of material	TBD	VI	CR	
IM fiber	number of wires	*	4	VI	CR
IM fiber	material	Tungsten	VI	CR	
IM fiber	Young's modulus	*	161GPa	VI	CR
IM fiber	tensile strength	*	5GPa	VI	CR
IM fiber	loss	1e-4	VI	CR	
IM fiber	thermal conductivity	TBD	VI	CR	
IM fiber	length	0.4m	VI	CR	
IM fiber	diameter	0.72mm	VI	CR	
IM fiber	density	19250kg/m^3	VI	CR	
IM fiber	temperature	10K	VI	CR	
RM fiber	yaw-mode resonant frequency	TBD	VI	CR	
RM fiber	pitch-mode resonant frequency	TBD	VI	CR	
RM fiber	yaw-mode loss	TBD	VI	CR	
RM fiber	pitch-mode loss	TBD	VI	CR	
RM fiber	yaw-mode moment of inertia	TBD	VI	CR	
RM fiber	pitch-mode moment of inertia	TBD	VI	CR	
IOO	AF RIN (requirement)	TBD		IF	LA
IOO	RF RIN (requirement)	1e-9W/W/rtHz		IF	LA
IOO	FSS gain at 100Hz	300dB		IF	LA
IOO	FSS gain at 1kHz	180dB		IF	IO
IOO	Ref Cav length	15cm (single FP)		IO	

IOO	Ref Cav finesse	1e4		IO	
IOO	pick-off power for FSS	100mW		IO	
IOO	FSS PD noise level	1e-9V/rtHz		IO	
IOO	COF between EOM and PZT	10kHz		IO	LA
IOO	COF between PZT and MC length *	a few Hz		IO	LA
IOO	COF between MC length and thermal	TBD		IO	LA
IOO	input angle control range to MC	TBD		IO	
IOO	input angle actuator noise level	TBD		IO	
IOO	RF oscillator phase noise	-160dBc		IF	
IOO	scattered light inside IO chamber	TBD	VA	IF	
IOO	scattered light from IO view port	TBD	VA	IF	
IOO	power attenuation range	100%-0.1%		IF	
IOO	extinction ratio of Faraday Isolator	40dB		IF	
Laser	laser power	180W		IF	
Laser	wavelength	1064nm		IO	LA
Laser	free-run frequency noise	100Hz/rtHz at 100Hz		IO	LA
Laser	free-run intensity noise	1e-4 W/W/rtHz		IO	LA
Laser	linewidth	a few kHz		IO	LA
Laser	intensity control range	TBD		IO	LA
Laser	intensity control method	TBD		IO	LA
Laser	chiller temperature	15deg		IO	LA
Laser	Laser temperature	TBD		IO	LA
Laser	Laser temperature control method	water		IO	LA
Laser	frequency control range for EOM	800kHz		IO	LA
Laser	frequency control range for PZT	TBD		IO	LA
Laser	frequency control range for thermal	TBD		IO	LA
MC2	suspension type	Type-C		IF	
MC2	MC length	26.6388m	VA	IF	IO
MC2	MC finesse	500	VA	IF	IO
MC2	output polarization	S-polarization		IF	IO
MC2	output frequency noise	TBD		IF	IO
MC2	output intensity noise	TBD		IF	IO
MC2	output beam jitter	TBD		IF	IO
MC2	HOM suppression	1e-3		IF	IO
MC2	control band (FSS slow)	TBD	VI	IF	EL
MC2	QPD noise	1e-9 V/rtHz		IF	IO
MC2	(coupling factor from ASC to LSC)	1e-4 m/rad		IF	LA

MC2	Beam centering error	0.1mm		IF	IO
MC2	PD dynamic range	TBD		IF	EL IO
MC2	QPD dynamic range	TBD		IF	EL IO
MIF	contrast defect (alignment etc)	*	0.5%	IF	
MIF	AS POM reflectivity (if any)	*	0	VA VI	IF
MIF	(laser power in PRC)		825W	IF	
MIF	(total optical loss in SRC)		2%	MI	IF
MIF	quantum efficiency (DC PD)		90%	IF	EL IO
MIF	demodulation function		square wave	IF	
MIF	differential offset on arm cavities		+/- 2e-12m	IF	IO
MIF	(DC readout phase)		134.5deg (DRSE)	IF	IO
MIF	detune phase		3.55deg	IF	
MIF	PRM-PR2 distance		14.761m	VA	IF
MIF	PR2-PR3 distance		12.067m	VA	IF
MIF	PR3-BS distance		14.764m	VA	IF
MIF	SRM-SR2 distance		14.761m	VA	IF
MIF	SR2-SR3 distance		12.067m	VA	IF
MIF	SR3-BS distance		14.764m	VA	IF
MIF	folding angle		0.6293deg	VA	IF
MIF	BS-ITM average distance		25.0285m	VA	IF
MIF	(PRC length)		66.6205m	VA	IF
MIF	(SRC length)		66.6205m	VA	IF
MIF	Gouy phase shift in PRC		20deg	IF	
MIF	Gouy phase shift in SRC		20deg	IF	
MIF	arm length	*	3km	VA	IF
MIF	asymmetry length		3.3310m	VA	IF
MIF	f1 sideband frequencies		16.875MHz	IF	
MIF	f1 sideband types		PM	IF	
MIF	f1 sideband modulation depths	*	0.2 at IFO	IF	IO
MIF	f2 sideband frequencies		45MHz	IF	IO
MIF	f2 sideband types		PM	IF	IO
MIF	f2 sideband modulation depths	*	0.2 at IFO	IF	IO
MIF	f3 sideband freq (if any)		39.375MHz	IF	EL IO
MIF	f2 sideband types (if any)		AM	IF	EL IO
MIF	f2 sideband modulation depths (if any)		TBD	IF	IO
MIF	MZ configuration		single, if any	IF	IO
MIF	tilt noise on each WFS DOF		TBD	VI	IF

MIF	(coupling factor from ASC to LSC)	*	1e-4m/rad		VI	IF	EL
MIF	Beam centering error on TM	*	0.1mm		VI	IF	EL
MIF	QPD dynamic range		TBD			IF	EL
MIF	QPD noise level for transmitted light	*	1e-9V/rtHz			IF	EL
MIF	Oplev QPD noise level		TBD			IF	EL
MIF	Oplev control band width for pit, yaw	*	3Hz			IF	EL
MIF	maximum DC voltage for demo signal		100mV			IF	EL
MIF	electric noise on demo signal		1e-9V/rtHz			IF	EL
MIF	CARM UGF		10kHz		VI	IF	EL
MIF	DARM UGF		200Hz		VI	IF	EL
MIF	PRCL UGF		20Hz		VI	IF	EL
MIF	MICH UGF		20Hz		VI	IF	EL
MIF	SRCL UGF		20Hz		VI	IF	EL
MIF	PRCL FF gain		100			IF	DG
MIF	MICH FF gain		100			IF	DG
MIF	SRCL FF gain		100			IF	DG
MIF	CARM signal extraction port		REFL	VA		IF	
MIF	DARM signal extraction port		OMCout	VA		IF	
MIF	PRCL signal extraction port		POP	VA		IF	
MIF	MICH signal extraction port		REFL	VA		IF	
MIF	SRCL signal extraction port		REFL	VA		IF	
MIF	RF PD (high power) dynamic range		TBD			IF	EL
MIF	RF PD (low power) dynamic range		TBD			IF	EL
MIF	DC PD (high power) dynamic range		TBD			IF	EL
MIF	DC PD (low power) dynamic range		TBD			IF	EL
MIF	DC PD noise level for transmitted light		TBD			IF	EL
MIF	Green Laser finesse in arms		19 (ITM80%-ETM90%)		MI	IF	
MIF	Green Laser power		100mW			IF	LA
MIF	Green laser's frequency gap (X and Y)		100MHz			IF	LA
MIF	Green Laser phase lock tightness		TBD			IF	LA
MIF	Green laser Injection Point		PR3 and SR3	VA		IF	IO
MIF	BS reflectivity for green		<1%		MI	IF	
MIF	PR2, SR2 reflectivity for green		<1%		MI	IF	
MIF	PR3, SR3 reflectivity for green		<1%		MI	IF	
MIF	rms fluctuation of DARM		1e-14m	VI	IF	IO	
OMC	number of mirrors		4		MI	IF	IO
OMC	OMC optical loss	*	1%		MI	IF	IO

		*	38cm	VA	IF	IC
OMC	OMC length	*	1000 (too high for 1% loss)	VI	IF	IC
OMC	OMC finesse	*	TBD		IF	IC
OMC	OMC displacement noise		TBD		IF	IC
OMC	actuator range		TBD		IF	EL
OMC	actuator noise level		TBD		IF	IC
OMC	RF reduction ratio		110dB		IF	IC
OMC	dither frequency for length control		TBD		IF	IC
OMC	dither frequency for angle control		TBD		IF	IC
OMC	dither PD noise level		1e-9 V/rtHz		IF	EL
OMC	dither QPD noise level		1e-9 V/rtHz		IF	IC
PMC	number of mirrors	4		VI MI	IF	EL
PMC	cavity length		48.8cm			IC
PMC	finesse		155			IC
PMC	RF PD noise level		1e-9 V/rtHz			IC
PMC	actuator range		TBD			EL
PMC	actuator noise level		TBD			IC
PRMs	PM1 radius		12.5cm	VI MI	IF	IC
PRMs	PM1 thickness		10cm	VI MI	IF	IC
PRMs	PM2 radius		12.5cm	VI MI	IF	IC
PRMs	PM2 thickness		10cm	VI MI	IF	IC
PRMs	PM3 radius		12.5cm	VI MI	IF	IC
PRMs	PM3 thickness		10cm	VI MI	IF	IC
PRMs	PRM reflectivity		90%	VI MI	IF	IC
PRMs	PRM optical loss		100ppm	VI MI	IF	IC
PRMs	RoC of PRM		370m	VI MI	IF	IC
PRMs	RoC of PR2		4.17m	VI MI	IF	IC
PRMs	RoC of PR3		32.34m	VI MI	IF	IC
PRMs	wedge angle of PRM	*	0.3deg	VA MI	IF	IC
RM	mass of RMTM		30kg	VI CR		IC
RM	material of RMTM		Cu	VI CR		IC
RM	outer diameter		29cm	VI CR		IC
RM	inner diameter		26cm	VI CR		IC
RM	thickness		26cm	VI CR		IC
RM	temperature of RMTM		20K	VI CR		IC
RM	emmisivity of surface of RMTM		0.02	VI CR		IC
RM	specific heat of RMTM		TBD	VI CR		IC
RM	thermal conducutivity of RMTM		TBD	VI CR		IC

RM	number of coil	4	VI	CR	EL		
RM	resistance of coil	TBD	VI	CR	EL		
RM fiber	material	BeCu	VI	CR			
RM fiber	thermal conductivity	TBD	VI	CR			
RM fiber	length	30cm	VI	CR			
RM fiber	diameter	0.4mm	VI	CR			
RM fiber	number of fibers	4	VI	CR			
RM fiber	Young's modulus	130GPa	VI	CR			
RM fiber	density	8360kg/m^3	VI	CR			
RM fiber	effective temperature	16K	VI	CR			
RM fiber	loss	5e-6	VI	CR			
RM fiber	yaw-mode resonant frequency	TBD	VI	CR			
RM fiber	pitch-mode resonant frequency	TBD	VI	CR			
RM fiber	yaw-mode loss	TBD	VI	CR			
RM fiber	pitch-mode loss	TBD	VI	CR			
RM fiber	yaw-mode moment of inertia	TBD	VI	CR			
RM fiber	pitch-mode moment of inertia	TBD	VI	CR			
SAS	Vertical horizontal coupling	worse 1/200	TU FA	VA	VI MI	IF	GE
SAS	TM seismic motion	Type- $\sim 4e-20$ m/rtHz at 10Hz	VA	VI MI	VI	IF	GE
SAS	PRM seismic motion	Type- $\sim 12e-21$ m/rtHz at 10Hz	VI	VI	VI	IF	
SAS	SRM seismic motion	Type- $\sim 12e-21$ m/rtHz at 10Hz	VI	VI	VI	IF	
SAS	OMC seismic motion	TBD	VI	VI	VI	IF	
SAS	adjustable distance (DC)	*	1cm	VI	VI	IF	EL
SAS	actuation range (AC)	TBD	VI	VI	VI	IF	EL
SAS	actuator noise	TBD	VI	VI	VI	IF	EL
SAS	TF from actuators to test mass	TBD	VI	VI MI	VI	IF	IO
SAS	RMS displacement	0.1um	VI	VI MI	VI	IF	DG
SAS	RMS velocity	0.1um/s	VI	VI MI	VI	IF	DG
SAS	RMS pitch	TBD	VI	VI MI	VI	IF	DG
SAS	RMS yaw	TBD	VI	VI MI	VI	IF	DG
SAS	speed of sound	TBD	TU FA	VI	VI		GE
SAS	CMRR (3km)	TBD	TU FA	VI	VI		GE
SAS	CMR cutoff frequency	TBD	TU FA	VI	VI		GE
SAS	local seismic motion at center	$2e-9$ m/rtHz at 1Hz	TU FA	VI	VI	CR	GE
SAS	local seismic motion at itmx	$2e-9$ m/rtHz at 1Hz	TU FA	VI	VI	CR	GE
SAS	local seismic motion at itmy	$2e-9$ m/rtHz at 1Hz	TU FA	VI	VI	CR	GE
SAS	local seismic motion at etmx	$2e-9$ m/rtHz at 1Hz	TU FA	VI	VI	CR	GE

SAS	local seismic motion at etmy	2e-9 m/rtHz at 1Hz	TU FA	VI	MI	CR	
SRMs	SM1 radius	12.5cm		VI	MI		
SRMs	SM1 thickness	10cm		VI	MI		
SRMs	SM2 radius	12.5cm		VI	MI		
SRMs	SM2 thickness	10cm		VI	MI		
SRMs	SM3 radius	12.5cm		VI	MI		
SRMs	SM3 thickness	10cm		VI	MI		
SRMs	SRM reflectivity	85%			MI		
SRMs	SRM optical loss	100ppm			MI		
SRMs	RoC of SRM	370m			MI		
SRMs	RoC of SR2	4.17m			MI		
SRMs	RoC of SR3	32.34m			MI		
SRMs	wedge of SRM	* 0.3deg	VA	MI	IF	IF	IO
TM	actuator power on ITM	TBD			MI	IF	EL
TM	actuator power on ETM	TBD			MI	IF	EL
TM	material of TM	Sapphire		VI	MI	CR	
TM	dimension	f250 x t150		VI	MI	CR	
TM	emmissivity of surface of TM	TBD		VI	MI	CR	
TM	specific heat of TM	0.69 J/K/kg		VI	MI	CR	
TM	thermal conductivity of TM	1.57e4 W/m/K		VI	MI	CR	
TM	Outer Diameter	25cm		VI	MI	CR	
TM	Outer Diameter Flat to Flat	* 24.6cm		VI	MI	CR	
TM	scratches and sleeks on two surfaces	TBD		VI	MI	CR	
TM	point defects on two surfaces	TBD		VI	MI	CR	
TM	central region surface rms	0.3nm (d<12cm)		VI	MI	CR IF	
TM	outer region surface rms	* 1nm (d>12cm)		VI	MI	CR IF	
TM	AR side surface flatness	TBD		VI	MI	CR IF	
TM	ROC seen from AR side	TBD		VI	MI	CR IF	
TM	coating / substrate homogeneity	TBD		VI	MI	CR IF	
TM	dr/dt of AR (reflectivity change)	TBD		VI	MI	CR IF	
TM	point scattering	TBD		VI	MI	CR IF	
TM	surface quality after coating	TBD		VI	MI	CR IF	
TM	birefringence	TBD		VI	MI	CR IF	
TM	beam radius on ETM	4.53cm		VI	MI	IF	IO
TM	beam radius on ITM	3.43cm		VI	MI	IF	IO
TM	mirror radius of ETM	12.5cm		VI	MI		
TM	mirror radius of ITM	12.5cm		VI	MI		

TM	mirror bulk density of ETM	4000 kg/m^3	VI	MI	
TM	mirror bulk density of ITM	4000 kg/m^3	VI	MI	
TM	mirror temperature of ETM	20K	VI	MI	CR
TM	mirror temeprature of ITM	20K	VI	MI	CR
TM	Young's modulus of ETM substrate	400GPa		MI	
TM	Young's modulus of ITM substrate	400GPa		MI	
TM	mirror bulk Poisson ratio of ETM	0.29		MI	
TM	mirror bulk Poisson ratio of ITM	0.29		MI	
TM	mirror thermal expansion of ETM	5.6e-9 1/K		MI	CR
TM	mirror thermal expansion of ITM	5.6e-9 1/K		MI	CR
TM	mirror specific heat of ETM	0.69 J/K/kg		MI	CR
TM	mirror specific heat of ITM	0.69 J/K/kg		MI	CR
TM	mirror thermal conductivity of ETM	1.57e4 W/m/K		MI	CR
TM	mirror thermal conductivity of ITM	1.57e4 W/m/K		MI	CR
TM	mirror mechanical loss of ETM	1e-8		MI	CR
TM	mirror mechanical loss of ITM	1e-8		MI	CR
TM	silica coating Youngs modulus	72GPa		MI	CR
TM	tantala coating Youngs modulus	140GPa		MI	CR
TM	silica coating Poisson ratio	0.17		MI	CR
TM	tantala coating Poisson ratio	0.23		MI	CR
TM	silica coating loss	3e-4		MI	CR
TM	tantala coating loss	5e-4		MI	CR
TM	silica coating specific heat per volume	1.64e6 J/K/m^3		MI	CR
TM	tantala coating specific heat per volume	2.10e6 J/K/m^3		MI	CR
TM	silica coating thermal expansion	5.1e-7 1/K		MI	CR
TM	tantala coating thermal expansion	3.6e-6 1/K		MI	CR
TM	silica coating thermal conductivity	1.38 W/m/K		MI	CR
TM	tantala coating thermal conductivity	33 W/m/K		MI	CR
TM	number of layers on ETM	18		MI	CR
TM	number of layers on ITM	9		MI	CR
TM	coating absorption	challer 0.5ppm		MI	CR
TM	AR surface absorption	1ppm		MI	CR
TM	mirror contamination	TBD		MI	CR
TM	ETM reflectivity	0.999945		MI	IF
TM	ITM reflectivity	0.996		MI	IF
TM	ETM optical loss	45ppm		MI	IF
TM	ITM optical loss	45ppm		MI	IF

TM	optical loss imbalance	+/-15ppm	MI	IF
TM	finesse imbalance	0.5%	MI	IF
TM	ITM substrate optical loss	20ppm/cm	MI	CR IF
TM	ITM AR surface optical loss	*	1000ppm	MI
TM	ETM mass	30kg	MI	IF
TM	ITM mass	30kg	MI	IF
TM	RoC error of ETM	*	1%	MI
TM	RoC error of ITM	*	1%	MI
TM	RoC of ETM	7km	MI	IF
TM	RoC of ITM	>500km	MI	IF
TM	RoC imbalance in two arms	*	0.5%	MI
TM	wedge angle of ETM	*	0.3deg	VA MI IF
TM	wedge angle of ITM	*	0.3deg	VA MI IF
TM fiber	uniformity of TM fiber	TBD	VI	CR
TM fiber	material	Sapphire	VI	CR
TM fiber	thermal conductivity	*	7kW/m/K at 20K	VI CR
TM fiber	length	30cm	VI	CR
TM fiber	diameter	1.6mm	VI	CR
TM fiber	number of fibers	4	VI	CR
TM fiber	Young's modulus	400GPa	VI	CR
TM fiber	density	4000kg/m^3	VI	CR
TM fiber	effective temperature	16	VI	CR
TM fiber	loss	2e-7	VI	CR
TM fiber	yaw-mode resonant frequency	TBD	VI	CR
TM fiber	pitch-mode resonant frequency	TBD	VI	CR
TM fiber	yaw-mode loss	TBD	VI	CR
TM fiber	pitch-mode loss	TBD	VI	CR
TM fiber	yaw-mode moment of inertia	TBD	VI	CR
TM fiber	pitch-mode moment of inertia	TBD	VI	CR