

Geometry Values (red = obso., blue = future, yellow = changed)

NAME IN XML FILE	XML VALUE (MC)	ENGINEERING VALUE	COMMENT
CALTransverseStayClear	364 mm	364 mm	
CALVertStayClear	224.3 mm	224.3 mm	
DiodeX	0.3 mm	0.3 mm	Diode active volume is ~1mm from face of xtal and has bond matl and some carrier in between
DiodeLY	14.5 mm	14.0 mm	Diode orientations also wrong in some cases
DiodeSY	2.4 mm	2.4 mm	
DiodeZ	10.5 mm	10.5 mm	
CsLength	326 mm	326 mm	
CsWidth	26.70 mm	26.70 mm	
CsHeight	19.90 mm	19.90 mm	
diodeZOffset	0.55 mm	0.55 mm	
diodeLYOffset	-2.60 mm	-2.45 mm	
DiodeSYOffset	8.025 mm	8.15 mm	
cellVertPitch	21.35 mm	21.34 mm	
cellHorPitch	27.84 mm	27.71 mm	
CsWrapThick	0.0065 mm	0.065 mm	Presumed typo
cellVertWallThick	0.45 mm	0.36 mm	Change in production process
cellHorWallThick	0.85 mm	0.84 mm	Change in production process
cellSideWallThick	1.685	2.4	Change in production process
cellTopWallThick	2.43	2.5	Change in production process
cellBottomWallThick	4.43	4.44	Change in production process
CALSideWallThick	12.0 mm	12.0 mm	
CALGridFrameGap	1.5 mm	1.5 mm	
CALSideWallInnerThick	1.0 mm	1.0 mm	
CALSideWallOuterThick	0.8 mm	0.8 mm	
CALSideWallPCBThick	1.6 mm	1.6 mm	
CALInnerWallPCBGap	3.7 mm	3.7 mm	
CALModuleWidth	363 mm	362 mm	
CALModuleHeight	222 mm	221.8 mm	
CALCylSupportDiameter	10 mm	10 mm	
CALCylSupportCellDelta	4	4	

NAME IN XML FILE	XML VALUE (MC)	ENGINEERING VALUE	COMMENT
CALFrameSideThick	8 mm	Obsolete	
CALTopFrameZ	16 mm	18 mm	Top frame changes make mass, overall envelope correct. This will shove layers down. Need to verify. Will change bottom of bottom frame (aka baseplate) relative to bottom of grid, but not a big problem since mounting tabs are not modeled
CALBottomFrameZ	14 mm	14 mm	
CALTopFrameWidth	16.7 mm	16.7 mm	
CALBottomFrameWidth	35.0 mm	25.5 mm	
CALTopPlateZ	2.43 mm	2.5 mm	
CALBottomPlateZ	4.43 mm	4.44 mm	
CALBottomRibPitch	73 mm	75 mm	
CALBottomRibWidth	10.0 mm	4.0 mm	
CALBottomRibThick	12.0 mm	8.0 mm	
CALMountTabThick	15.0 mm	7.0 mm	
CALMountTabWidth	12 mm	11.5 mm	
CALTopFrameUpperWidth	13.2 mm	12.7 mm	
CALTopFrameLowerWidth	7.5 mm	8 mm	
CALTopFrameLowerZ	10.0 mm	10.0 mm	
CALBottomFramePlateZ	n/a	5.8 mm	This should be added soon

Material Properties (yellow = changed)

VARIABLE NAME	DESCRIPTION	NAME IN XML FILE	COMPOSITION (NO ATOMS OR FRACTIONAL MASS)	XML DENSITY VALUE (G/CM <sup>3</sup> )	EFFECTIVE DENSITY VALUE (G/CM <sup>3</sup> )	ENGINEERING DOCUMENT
crystalMat	CAL Csl crystals	Csl	Cesium(1) Iodine(1)	4.51	4.46	See Error! Reference source not found.
CALCellMat	CAL Carbon Fiber structure	CarbonFiber	Carbon (1)	1.6	1.63	See Error! Reference source not found.