2019 Sensors in Half-Modules

Sensor #	Glued to Hybrid	Received	V_{dep} (V) CNM	Av. Edge (um), UCSC	V_{break} (V) CNM	V_{break} (V) UCSC	Pinholes Sector A from Half-Module Testing	Pinholes Sector B from Half-Module Testing	Number of Pinholes
W01-S4	gimp	01/13/2019			120	120	***5, 22,*** 142, 157, 255	***3, 31, 34, 51,*** **83, 127,** 134, 135, 146, 156, 176, 179, 213, 241, 245	20
W07-S3	L0M02	02/27/2019	23	367	380	130	***28,*** **65,** 193, 194	***10, 37, 48, 57,*** **88, 112,** 143, 165, 199, 200, 227, 234, 246	17
W07-S5	L0M10	02/27/2019	30	327	420	335	***1, 39, 61,*** **126,** 146, 151, 154, 186, 194, 220	***35,*** **70, 78, 93, 94, 103, 119, 120**, 134, 135, 137, 155, 157, 166, 176, 181, 188, 206, 208, 240, 241, 243, 250	33
W09-S2	L0M07	02/27/2019	23	360 (399)	240	~300	***8, 44,*** 159, 188, 197	**73,** 171, 237, 245	9
W09-S5	L0M01	02/27/2019	23	342	120	120	**122,** 160, 162, 225, 246, 248	***17, 37, 48, 57, 58, 59, 60,*** **106, 107, 122,** 144, 161, 226, 231, 246, 247, 249	22
W02-S4	L0M04	02/27/2019	23	331	150	135	Way too many to care	Way too many to care	~200
W03-S6	L0M08	02/27/2019	18	328	280	190	Way too many to care	Way too many to care	~200
W04-S3	L0M09	02/27/2019	25	349	350	370	***16, 52,*** **97, 121,** 172, 187, 198, 227, 232	***31, 49,*** **86, 123, 125**	14
W04-S6	L0M12	02/27/2019	18	304 (340)	480	420	***3, 4, 5, 6, 10, 11, 12, 13, 14, 15,*** **86, 88, 113,** 132, 190, 233	**81, 108,** 146, 180, 226, 228, 253	23
W07-S4	L0M11	02/27/2019	N/A	244	N/A	~220	***9, 14, 64,*** **67, 82, 84, 98, 118,** 138, 153, 162, 199, 200, 208, 209, 246	***9, 11, 15, 17, 19, 52, 62, 63,*** **89, 95, 104, 107, 115,** 144, 166, 186	32
W10-S1	L0M19	03/25/2019	30	298 (338)	220-400	~270	***18, 23, 49,*** **105,** 159, 171, 203, 206, 209	**118,** 204	11
W10-S3	L0M15	03/25/2019	30	395 (442)	~220	290	**75, 112,** 133, 174, 207, 253	204, 231	8
W10-S4	L0M03	03/25/2019	30	366	250	~200	**122,** 143, 210	***24,*** **65**	5
W10-S6	L0M20	03/25/2019	30	274	400	~340	***5, 22, 27, 40, 50, 63,*** **85,** 238	156	9
W11-S1	L0M16	03/25/2019	32	352 (398)	470	330	**105, 110, 127**	204, 220, 163	6
W11-S2	L0M22	03/25/2019	32	337 (358)	400	420	**87, 101,** 152, 225, 255	***49, 50,*** 225	8
W11-S3	L0M17	03/25/2019	32	318	450	340	**112,** 167, 173, 174, 253	***30, 49,*** 165, 204	9
W11-S4	L0M21	03/25/2019	32	315	135	150	***24, 42,*** **122,** 143, 216, 232, 233, 242, 251, 254	**65,** 171, 179, 180, 181, 182, 183, 184, 210, 215	20
W11-S5	L0M13	03/25/2019	32	303 (335)	280	290	***48,*** **90,** 129, 240	***1, 32, 36, 38, 49,*** **90,** 143, 184	12
W11-S6	L0M18	03/25/2019	32	377 (425)	320	370	**18,** 197, 242	NONE!	3

Sensors with reasonable number of pinholes:

Sensor #	Glued to Hybrid	Received	V_{dep} (V) CNM	Av. Edge (um), UCSC	V_{break} (V) CNM	V_{break} (V) UCSC	Pinholes Sector A from Half-Module Testing	Pinholes Sector B from Half-Module Testing	Number of Pinholes
W09-S2	L0M07	02/27/2019	23	360 (399)	240	~300	***8, 44,*** 159, 188, 197	**73,** 171, 237, 245	9
W10-S3	L0M15	03/25/2019	30	395 (442)	~220	290	**75, 112,** 133, 174, 207, 253	204, 231	8
W10-S4	L0M03	03/25/2019	30	366	250	~200	**122,** 143, 210	***24,*** **65**	5
W11-S1	L0M16	03/25/2019	32	352 (398)	470	330	**105, 110, 127**	204, 220, 163	6
W11-S2	L0M22	03/25/2019	32	337 (358)	400	420	**87, 101,** 152, 225, 255	***49, 50,*** 225	8
W11-S3	L0M17	03/25/2019	32	318	450	340	**112,** 167, 173, 174, 253	***30, 49,*** 165, 204	9
W11-S4	L0M21	03/25/2019	32	315	135	150	***24, 42,*** **122,** 143, 216, 232, 233, 242, 251, 254	**65,** 171, 179, 180, 181, 182, 183, 184, 210, 215	20
W11-S6	L0M18	03/25/2019	32	377 (425)	320	370	**18,** 197, 242	NONE!	3

Sorting by slim edge width argues for L0M21, L0M17, L0M22, L0M16 in L0.

L0M21 has a low breakdown voltage so substitute L0M19.

L0M03, L0M15, L0M18, L0M07 go in slim L1.

Sensors after building L0 and slim L1:

Sensor #	Glued to Hybrid	Received	V_{dep} (V) CNM	Av. Edge (um), UCSC	V_{break} (V) CNM	V_{break} (V) UCSC	Pinholes Sector A from Half-Module Testing	Pinholes Sector B from Half-Module Testing	Number of Pinholes
W01-S4	gimp	01/13/2019			120	120	***5, 22,*** 142, 157, 255	***3, 31, 34, 51,*** **83, 127,** 134, 135, 146, 156, 176, 179, 213, 241, 245	20
W07-S3	L0M02	02/27/2019	23	367	380	130	***28,*** **65,** 193, 194	***10, 37, 48, 57,*** **88, 112,** 143, 165, 199, 200, 227, 234, 246	17
W07-S5	L0M10	02/27/2019	30	327	420	335	***1, 39, 61,*** **126,** 146, 151, 154, 186, 194, 220	***35,*** **70, 78, 93, 94, 103, 119, 120**, 134, 135, 137, 155, 157, 166, 176, 181, 188, 206, 208, 240, 241, 243, 250	33
W09-S5	L0M01	02/27/2019	23	342	120	120	**122,** 160, 162, 225, 246, 248	***17, 37, 48, 57, 58, 59, 60,*** **106, 107, 122,** 144, 161, 226, 231, 246, 247, 249	22
W02-S4	L0M04	02/27/2019	23	331	150	135	Way too many to care	Way too many to care	~200
W03-S6	L0M08	02/27/2019	18	328	280	190	Way too many to care	Way too many to care	~200
W04-S3	L0M09	02/27/2019	25	349	350	370	***16, 52,*** **97, 121,** 172, 187, 198, 227, 232	***31, 49,*** **86, 123, 125**	14
W04-S6	L0M12	02/27/2019	18	304 (340)	480	420	***3, 4, 5, 6, 10, 11, 12, 13, 14, 15,*** **86, 88, 113,** 132, 190, 233	**81, 108,** 146, 180, 226, 228, 253	23
W07-S4	L0M11	02/27/2019	N/A	244	N/A	~220	***9, 14, 64,*** **67, 82, 84, 98, 118,** 138, 153, 162, 199, 200, 208, 209, 246	***9, 11, 15, 17, 19, 52, 62, 63,*** **89, 95, 104, 107, 115,** 144, 166, 186	32
W10-S6	L0M20	03/25/2019	30	274	400	~340	***5, 22, 27, 40, 50, 63,*** **85,** 238	156	9
W11-S4	L0M21	03/25/2019	32	315	135	150	***24, 42,*** **122,** 143, 216, 232, 233, 242, 251, 254	**65,** 171, 179, 180, 181, 182, 183, 184, 210, 215	20
W11-S5	L0M13	03/25/2019	32	303 (335)	280	290	***48,*** **90,** 129, 240	***1, 32, 36, 38, 49,*** **90,** 143, 184	12