



# Coverage Testability Report

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Board BSCAN2  
Project BSCAN2\_FPT

## Introduction

The normal PCB assembly process is complex and has many places where something can go wrong. Every defect can be modeled into a fault-effect. Depending on the test method selected, tests can be generated in order to check every fault-effect. This is called **fault-oriented testing**.

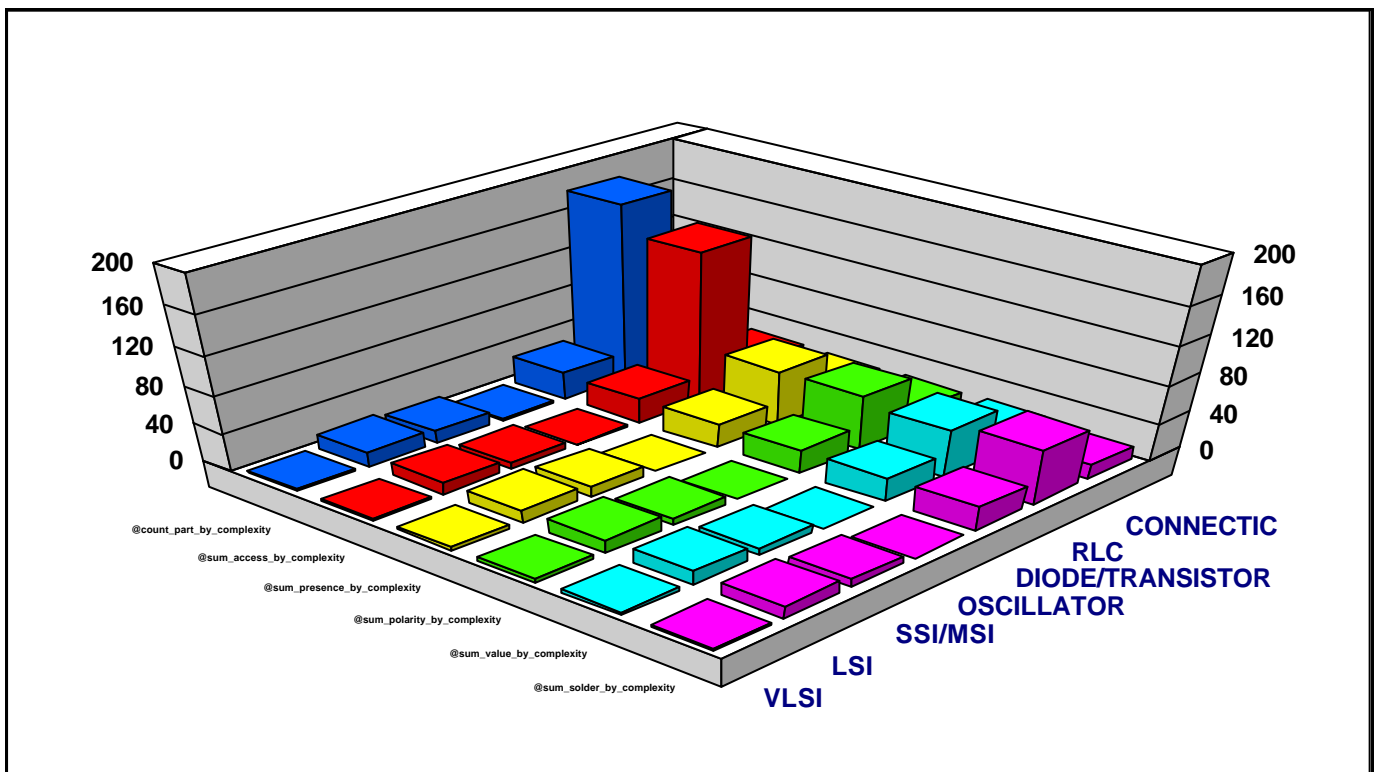
The test quality measure called "Fault coverage" defines the ability of one test method to detect some types of fault. In order to compare and combine "fault coverage" from various test methods, TestWay creates 4 coverage metrics:

- ♦ **Presence** of a component
- ♦ **Polarity** (orientation) of a component
- ♦ **Value** (proper value of the discrete component, signals propagating through a part of the circuit)
- ♦ **Solder** (Connections of the component to its surrounding)

These 4 metrics could be combined from structural test (AXI X-Ray, AOI Automated Optical Inspection, MDA Manufacturing Defects Analysis, ICT In-Circuit Test, BST Boundary-Scan Test) or functional test.

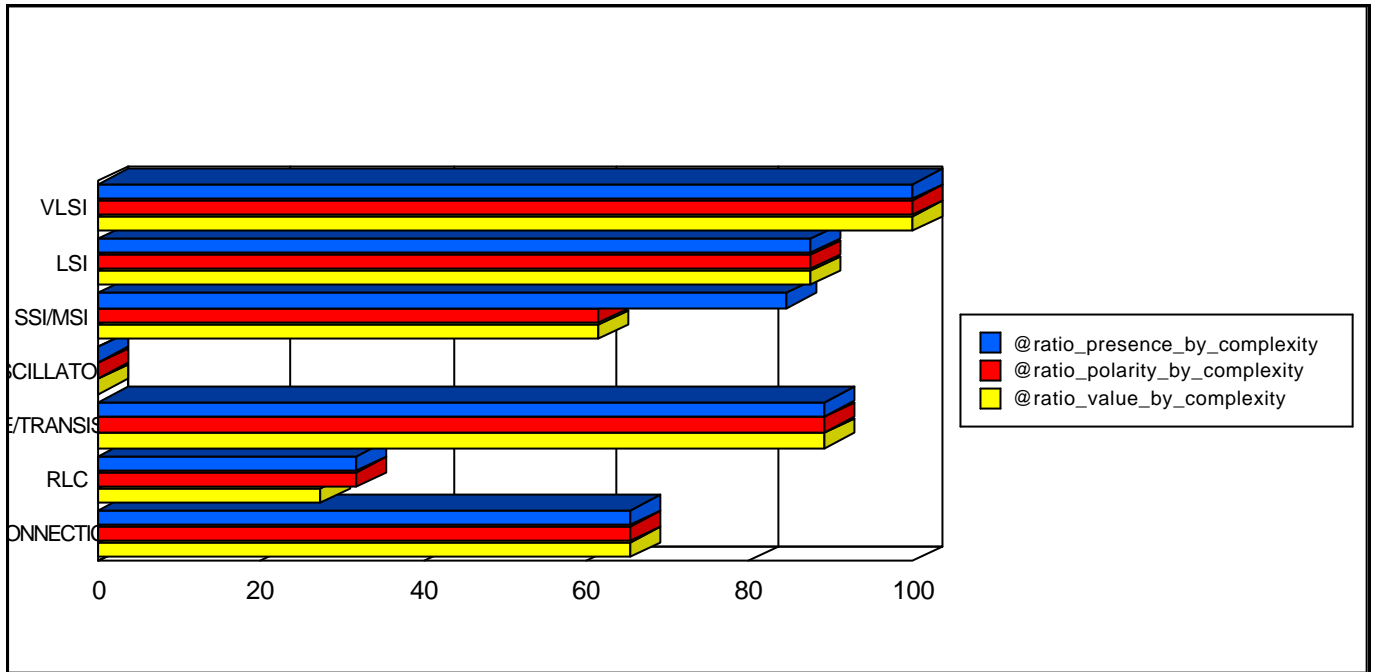
## Coverages per defect category by component complexity

This graph presents in a 3-dimentional view, the number of components and the different coverages per component complexity. Coverages are described in 5 categories: accessibility, presence, polarity, value and solder.



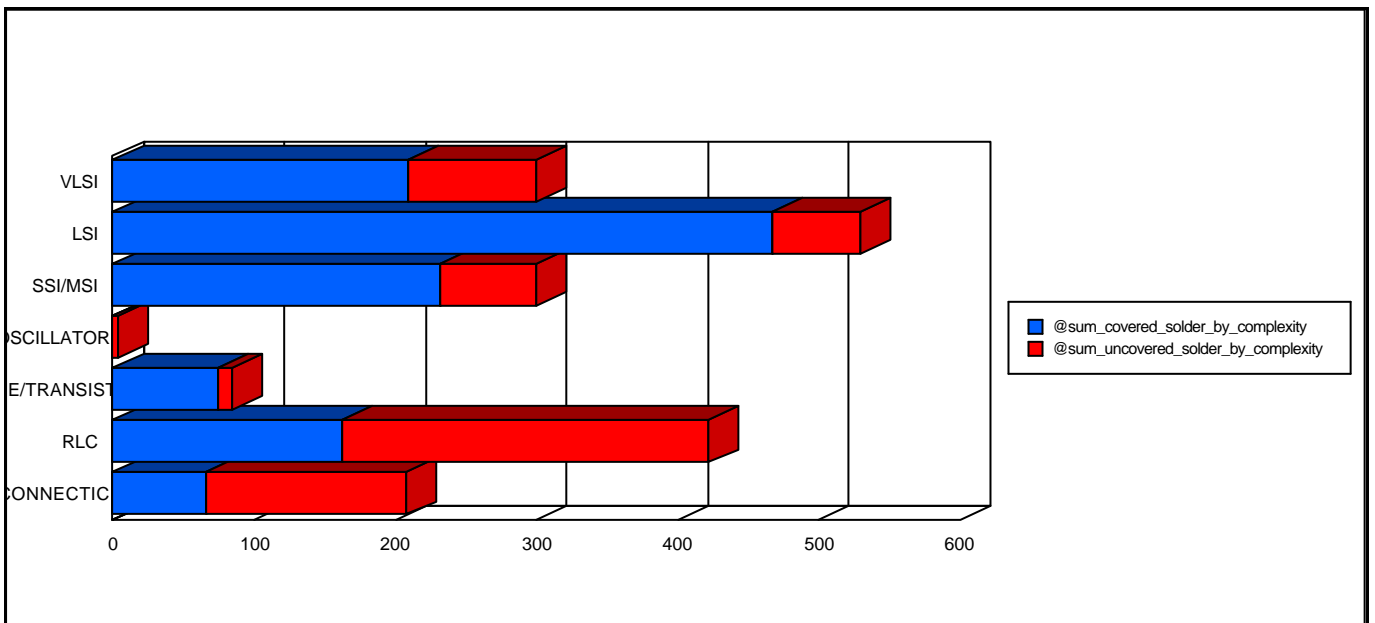
## Partnumber coverage by component complexity

This graph presents the coverages (presence, polarity, value) by partnumber per component complexity. For example, if at least one partnumber is covered in value, we can deduce that the right component is in the feeder. Then all parts using this partnumber are at least partially covered in value.



## Soldering coverage by component complexity

This graph presents the number of solder joints versus the covered solder joints per component complexity.



04-juil.-2002

part_no	ref	type	shape	function	complexity	access	essence	olarity	value	solder
0_25A	F2	0_25A		FUSE	CONNECTI	50,00	0,00	0,00	0,00	0,00
<b>0_25A</b>	Number of parts: <b>1</b>					<b>50,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/2</b>									
1_0A	F1	1_0A		FUSE	CONNECTI	50,00	0,00	0,00	0,00	0,00
<b>1_0A</b>	Number of parts: <b>1</b>					<b>50,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/2</b>									
50PIN	XH902	50PIN		CONNECTOR	CONNECTI	100,00	0,00	0,00	0,00	0,00
<b>50PIN</b>	Number of parts: <b>1</b>					<b>100,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/50</b>									
BSCAN_TAP_1	XH2	BSCAN_TAP_1		CONNECTOR	CONNECTI	60,00	0,00	0,00	0,00	0,00
<b>BSCAN_TAP_1</b>	Number of parts: <b>1</b>					<b>60,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/10</b>									
BSCAN_TAP_2	XH3	BSCAN_TAP_2		CONNECTOR	CONNECTI	70,00	0,00	0,00	0,00	0,00
<b>BSCAN_TAP_2</b>	Number of parts: <b>1</b>					<b>70,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/10</b>									
BSCAN_TESTBU	XH4	BSCAN_TESTBU		CONNECTOR	CONNECTI	80,00	0,00	0,00	0,00	0,00
<b>BSCAN_TESTBU</b>	Number of parts: <b>1</b>					<b>80,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/10</b>									
CLK_JUMPER	J501	CLK_JUMPER		JUMPER	CONNECTI	66,67	100,00	100,00	100,00	66,67
<b>CLK_JUMPER</b>	Number of parts: <b>1</b>					<b>66,67</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>66,67</b>
	Covered solders / total solders: <b>2/3</b>									
CON5X2	XH901	CON5X2		CONNECTOR	CONNECTI	90,00	0,00	0,00	0,00	0,00
<b>CON5X2</b>	Number of parts: <b>1</b>					<b>90,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/10</b>									
CON7X2	XH801	CON7X2		CONNECTOR	CONNECTI	71,43	0,00	0,00	0,00	0,00
<b>CON7X2</b>	Number of parts: <b>1</b>					<b>71,43</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/14</b>									
JUMPER	J401	JUMPER		JUMPER	CONNECTI	100,00	100,00	100,00	100,00	100,00
JUMPER	J801	JUMPER		JUMPER	CONNECTI	100,00	100,00	100,00	100,00	100,00

part_no	ref	type	shape	function	complexity	access	esence	olarity	value	solder
<b>JUMPER</b>	Number of parts:		<b>2</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>4/4</b>							
JUMPER1	J2	JUMPER1		JUMPER	CONNECTI	100,00	100,00	100,00	100,00	100,00
<b>JUMPER1</b>	Number of parts:		<b>1</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>2/2</b>							
JUMPER1X2	J1	JUMPER1X2		JUMPER	CONNECTI	33,33	0,00	0,00	0,00	0,00
<b>JUMPER1X2</b>	Number of parts:		<b>1</b>			<b>33,33</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/3</b>							
STROMVERSORG	XH1	STROMVERSORG		CONNECTOR	CONNECTI	50,00	0,00	0,00	0,00	0,00
<b>STROMVERSOR</b>	Number of parts:		<b>1</b>			<b>50,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/2</b>							
SWMINUSPB	S601	SWMINUSPB		SWITCH	CONNECTI	100,00	100,00	100,00	100,00	100,00
<b>SWMINUSPB</b>	Number of parts:		<b>1</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>2/2</b>							
SW_DIPMINUS2	S9	SW_DIPMINUS2		SWITCH	CONNECTI	100,00	100,00	100,00	100,00	100,00
<b>SW_DIPMINUS2</b>	Number of parts:		<b>1</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>4/4</b>							
SW_DIPMINUS4	S1	SW_DIPMINUS4		SWITCH	CONNECTI	62,50	100,00	100,00	100,00	62,50
SW_DIPMINUS4	S10	SW_DIPMINUS4		SWITCH	CONNECTI	75,00	100,00	100,00	100,00	75,00
SW_DIPMINUS4	S2	SW_DIPMINUS4		SWITCH	CONNECTI	50,00	100,00	100,00	100,00	50,00
SW_DIPMINUS4	S3	SW_DIPMINUS4		SWITCH	CONNECTI	87,50	100,00	100,00	100,00	87,50
SW_DIPMINUS4	S4	SW_DIPMINUS4		SWITCH	CONNECTI	50,00	100,00	100,00	100,00	50,00
SW_DIPMINUS4	S5	SW_DIPMINUS4		SWITCH	CONNECTI	100,00	100,00	100,00	100,00	100,00
SW_DIPMINUS4	S6	SW_DIPMINUS4		SWITCH	CONNECTI	50,00	100,00	100,00	100,00	50,00
SW_DIPMINUS4	S7	SW_DIPMINUS4		SWITCH	CONNECTI	50,00	100,00	100,00	100,00	50,00
SW_DIPMINUS4	S8	SW_DIPMINUS4		SWITCH	CONNECTI	50,00	100,00	100,00	100,00	50,00
<b>SW_DIPMINUS4</b>	Number of parts:		<b>9</b>			<b>63,89</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>63,89</b>
	Covered solders / total solders:		<b>46/72</b>							
SW_SPST	S201	SW_SPST		SWITCH	CONNECTI	100,00	100,00	100,00	100,00	100,00
<b>SW_SPST</b>	Number of parts:		<b>1</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>2/2</b>							
UNDEFINED	J201	UNDEFINED		JUMPER	CONNECTI	50,00	100,00	100,00	100,00	50,00
UNDEFINED	J202	UNDEFINED		JUMPER	CONNECTI	50,00	100,00	100,00	100,00	50,00
UNDEFINED	J203	UNDEFINED		JUMPER	CONNECTI	100,00	100,00	100,00	100,00	100,00

part_no	ref	type	shape	function	complexity	access	esence	olarity	value	solder
<b>UNDEFINED</b>	Number of parts:		<b>3</b>			<b>66,67</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>66,67</b>
	Covered solders / total solders:		<b>4/6</b>							
LED	D1	LED		DIODE	DIODE/TR	50,00	0,00	0,00	0,00	0,00
LED	D1001	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1002	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1003	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1004	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1005	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1006	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1007	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1008	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1009	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1010	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1011	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1012	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1013	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1014	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1015	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1016	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1017	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1018	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1019	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1020	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1021	LED		DIODE	DIODE/TR	50,00	0,00	0,00	0,00	0,00
LED	D1022	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1023	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D1024	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
LED	D801	LED		DIODE	DIODE/TR	50,00	0,00	0,00	0,00	0,00
LED	D802	LED		DIODE	DIODE/TR	100,00	100,00	100,00	100,00	100,00
<b>LED</b>	Number of parts:		<b>27</b>			<b>94,44</b>	<b>88,89</b>	<b>88,89</b>	<b>88,89</b>	<b>88,89</b>
	Covered solders / total solders:		<b>72/81</b>							
MIC29150	U1	MIC29150		TRANSISTO	DIODE/TR	100,00	100,00	100,00	100,00	100,00
<b>MIC29150</b>	Number of parts:		<b>1</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>3/3</b>							
28F320J3	U401	28F320J3		EEPROM	LSI	100,00	100,00	100,00	100,00	100,00
<b>28F320J3</b>	Number of parts:		<b>1</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>56/56</b>							
74HC157	U103	74HC157		TRANSPARE	LSI	71,43	0,00	0,00	0,00	0,00
<b>74HC157</b>	Number of parts:		<b>1</b>			<b>71,43</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/16</b>							
74HC40105	U804	74HC40105		RAM	LSI	92,86	100,00	100,00	100,00	100,00
74HC40105	U805	74HC40105		RAM	LSI	78,57	100,00	100,00	100,00	100,00
<b>74HC40105</b>	Number of parts:		<b>2</b>			<b>85,72</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>32/32</b>							

part_no	ref	type	shape	function	complexity	access	esence	olarity	value	solder
74LVT245	U600	74LVT245		TRANSPARE	LSI	100,00	100,00	100,00	100,00	100,00
74LVT245	U601	74LVT245		TRANSPARE	LSI	55,56	100,00	100,00	100,00	100,00
<b>74LVT245</b>	Number of parts:		<b>2</b>			<b>77,78</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>40/40</b>							
AD7801	U800	AD7801			LSI	86,67	100,00	100,00	100,00	100,00
<b>AD7801</b>	Number of parts:		<b>1</b>			<b>86,67</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>20/20</b>							
AD7819	U801	AD7819			LSI	92,86	100,00	100,00	100,00	100,00
<b>AD7819</b>	Number of parts:		<b>1</b>			<b>92,86</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>16/16</b>							
AM29LV160B	U400	AM29LV160B		EEPROM	LSI	100,00	100,00	100,00	100,00	100,00
<b>AM29LV160B</b>	Number of parts:		<b>1</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>48/48</b>							
DS90X031ATM	U802	DS90X031ATM			LSI	71,43	100,00	100,00	100,00	71,43
<b>DS90X031ATM</b>	Number of parts:		<b>1</b>			<b>71,43</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>71,43</b>
	Covered solders / total solders:		<b>11/16</b>							
DS90X032ATM	U803	DS90X032ATM			LSI	57,14	0,00	0,00	0,00	0,00
<b>DS90X032ATM</b>	Number of parts:		<b>1</b>			<b>57,14</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/16</b>							
ISPGAL22LV10	U900	ISPGAL22LV10			LSI	15,38	100,00	100,00	100,00	15,38
<b>ISPGAL22LV10</b>	Number of parts:		<b>1</b>			<b>15,38</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>15,38</b>
	Covered solders / total solders:		<b>4/28</b>							
K6S641632C	U501	K6S641632C		RAM	LSI	100,00	100,00	100,00	100,00	100,00
<b>K6S641632C</b>	Number of parts:		<b>1</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>54/54</b>							
K6T4016V3C	U500	K6T4016V3C		RAM	LSI	97,44	100,00	100,00	100,00	100,00
<b>K6T4016V3C</b>	Number of parts:		<b>1</b>			<b>97,44</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>44/44</b>							
K7A203200A	U502	K7A203200A		RAM	LSI	93,75	100,00	100,00	100,00	100,00
<b>K7A203200A</b>	Number of parts:		<b>1</b>			<b>93,75</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>100/100</b>							

part_no	ref	type	shape	function	complexity	access	esence	olarity	value	solder
XC18V256	U200	XC18V256			LSI	50,00	100,00	100,00	100,00	94,44
<b>XC18V256</b>	Number of parts: <b>1</b>					<b>50,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>94,44</b>
	Covered solders / total solders: <b>41/43</b>									
QGEN	Q601	QGEN		OSCILLATO	OSCILLAT	100,00	0,00	0,00	0,00	0,00
<b>QGEN</b>	Number of parts: <b>1</b>					<b>100,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/4</b>									
100NF	C2	100NF		CAPACITOR	RLC	50,00	0,00	0,00	0,00	0,00
100NF	C4	100NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
100NF	C5	100NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
<b>100NF</b>	Number of parts: <b>3</b>					<b>83,33</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/6</b>									
100R	R805	100R		RESISTOR	RLC	0,00	0,00	0,00	0,00	0,00
100R	R806	100R		RESISTOR	RLC	0,00	0,00	0,00	0,00	0,00
100R	R814	100R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
100R	R815	100R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
<b>100R</b>	Number of parts: <b>4</b>					<b>50,00</b>	<b>50,00</b>	<b>50,00</b>	<b>50,00</b>	<b>50,00</b>
	Covered solders / total solders: <b>4/8</b>									
100_F_10V	C3	100_F_10V		CAPACITOR	RLC	100,00	100,00	100,00	100,00	100,00
100_F_10V	C6	100_F_10V		CAPACITOR	RLC	100,00	100,00	100,00	100,00	100,00
100_F_10V	C602	100_F_10V		CAPACITOR	RLC	100,00	100,00	100,00	100,00	100,00
<b>100_F_10V</b>	Number of parts: <b>3</b>					<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders: <b>6/6</b>									
10K	P601	10K		RESISTOR	RLC	33,33	0,00	0,00	0,00	0,00
10K	R310	10K		RESISTOR	RLC	66,67	0,00	0,00	0,00	0,00
10K	R311	10K		RESISTOR	RLC	66,67	0,00	0,00	0,00	0,00
10K	R314	10K		RESISTOR	RLC	66,67	0,00	0,00	0,00	0,00
10K	R315	10K		RESISTOR	RLC	66,67	0,00	0,00	0,00	0,00
10K	R603	10K		RESISTOR	RLC	66,67	0,00	0,00	0,00	0,00
10K	R705	10K		RESISTOR	RLC	66,67	0,00	0,00	0,00	0,00
<b>10K</b>	Number of parts: <b>7</b>					<b>61,91</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders: <b>0/21</b>									
10NF	C201	10NF		CAPACITOR	RLC	100,00	100,00	100,00	100,00	100,00
<b>10NF</b>	Number of parts: <b>1</b>					<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders: <b>2/2</b>									
10R	R201	10R		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
10R	R202	10R		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
10R	R802	10R		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00

part_no	ref	type	shape	function	complexity	access	esence	olarity	value	solder
<b>10R</b>	Number of parts:		<b>3</b>			<b>50,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/6</b>							
12R	R303	12R		RESISTOR	RLC	50,00	100,00	100,00	0,00	100,00
12R	R304	12R		RESISTOR	RLC	50,00	100,00	100,00	0,00	100,00
12R	R305	12R		RESISTOR	RLC	50,00	100,00	100,00	0,00	100,00
12R	R306	12R		RESISTOR	RLC	50,00	100,00	100,00	0,00	100,00
<b>12R</b>	Number of parts:		<b>4</b>			<b>50,00</b>	<b>100,00</b>	<b>100,00</b>	<b>0,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>8/8</b>							
1K	R208	1K		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
1K	R408	1K		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
1K	R409	1K		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
1K	R501	1K		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
1K	R504	1K		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
1K	R505	1K		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
1K	R509	1K		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
1K	R601	1K		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
1K	R604	1K		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
1K	R704	1K		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
1K	R804	1K		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
1K	R807	1K		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
1K	R808	1K		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
<b>1K</b>	Number of parts:		<b>13</b>			<b>65,38</b>	<b>30,77</b>	<b>30,77</b>	<b>30,77</b>	<b>30,77</b>
	Covered solders / total solders:		<b>8/26</b>							
1M	R309	1M		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
1M	R312	1M		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
1M	R313	1M		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
1M	R316	1M		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
<b>1M</b>	Number of parts:		<b>4</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>8/8</b>							
2K2	R203	2K2		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
<b>2K2</b>	Number of parts:		<b>1</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>2/2</b>							
2K5	R407	2K5		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
<b>2K5</b>	Number of parts:		<b>1</b>			<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>2/2</b>							
330R	R2	330R		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
330R	R3	330R		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
330R	R4	330R		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
330R	R5	330R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
330R	R6	330R		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
330R	R7	330R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00





part_no	ref	type	shape	function	complexity	access	esence	olarity	value	solder
33NF	C616	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C617	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C618	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C619	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C620	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C629	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C630	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C700	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C701	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C702	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C703	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C704	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C705	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C800	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C801	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C802	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C803	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C804	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C805	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C806	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C807	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C808	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
33NF	C900	33NF		CAPACITOR	RLC	100,00	0,00	0,00	0,00	0,00
<b>33NF</b>	Number of parts:		<b>82</b>			<b>100,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/164</b>							
33R	R317	33R		RESISTOR	RLC	50,00	100,00	100,00	0,00	100,00
33R	R318	33R		RESISTOR	RLC	50,00	100,00	100,00	0,00	100,00
33R	R319	33R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
33R	R320	33R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
<b>33R</b>	Number of parts:		<b>4</b>			<b>75,00</b>	<b>100,00</b>	<b>100,00</b>	<b>50,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>8/8</b>							
47_F_10V	C1	47_F_10V		CAPACITOR	RLC	50,00	0,00	0,00	0,00	0,00
<b>47_F_10V</b>	Number of parts:		<b>1</b>			<b>50,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/2</b>							
4K7	R102	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R104	4K7		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
4K7	R105	4K7		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
4K7	R106	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R204	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R205	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R206	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R207	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R401	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R402	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R403	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R404	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R405	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R502	4K7		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
4K7	R503	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R506	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R507	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R508	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R602	4K7		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
4K7	R701	4K7		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00

part_no	ref	type	shape	function	complexity	access	esence	olarity	value	solder
4K7	R702	4K7		RESISTOR	RLC	0,00	100,00	100,00	0,00	100,00
4K7	R703	4K7		RESISTOR	RLC	50,00	100,00	100,00	0,00	100,00
4K7	R8	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R801	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R803	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R810	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R812	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R813	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4K7	R816	4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
<b>4K7</b>	Number of parts:		<b>29</b>			<b>86,21</b>	<b>82,76</b>	<b>82,76</b>	<b>75,86</b>	<b>82,76</b>
	Covered solders / total solders:		<b>48/58</b>							
4K7_	R101	4K7_		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
4K7_	R103	4K7_		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
<b>4K7_</b>	Number of parts:		<b>2</b>			<b>50,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/4</b>							
4X100R	RP1001	4X100R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4X100R	RP1002	4X100R		RESISTOR	RLC	87,50	100,00	100,00	100,00	87,50
4X100R	RP1003	4X100R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4X100R	RP1004	4X100R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4X100R	RP1005	4X100R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
4X100R	RP1006	4X100R		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
<b>4X100R</b>	Number of parts:		<b>6</b>			<b>97,92</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>97,92</b>
	Covered solders / total solders:		<b>47/48</b>							
4X4K7	RP601	4X4K7		RESISTOR	RLC	87,50	100,00	100,00	100,00	87,50
4X4K7	RP602	4X4K7		RESISTOR	RLC	100,00	100,00	100,00	100,00	100,00
<b>4X4K7</b>	Number of parts:		<b>2</b>			<b>93,75</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>93,75</b>
	Covered solders / total solders:		<b>15/16</b>							
82R	R1	82R		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
82R	R809	82R		RESISTOR	RLC	0,00	0,00	0,00	0,00	0,00
82R	R811	82R		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
<b>82R</b>	Number of parts:		<b>3</b>			<b>33,33</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/6</b>							
8R2	R301	8R2		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
8R2	R302	8R2		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
8R2	R307	8R2		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
8R2	R308	8R2		RESISTOR	RLC	50,00	0,00	0,00	0,00	0,00
<b>8R2</b>	Number of parts:		<b>4</b>			<b>50,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/8</b>							
74HC00	U701	74HC00		TRANSPARE	SSI/MSI	33,33	100,00	100,00	100,00	100,00
74HC00	U806	74HC00		TRANSPARE	SSI/MSI	33,33	0,00	0,00	0,00	0,00

part_no	ref	type	shape	function	complexity	access	esence	olarity	value	solder
<b>74HC00</b>	Number of parts:		<b>2</b>			<b>33,33</b>	<b>50,00</b>	<b>50,00</b>	<b>50,00</b>	<b>50,00</b>
	Covered solders / total solders:		<b>14/28</b>							
74HC125	U702	74HC125		BUFFER	SSI/MSI	25,00	100,00	100,00	100,00	100,00
<b>74HC125</b>	Number of parts:		<b>1</b>			<b>25,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>14/14</b>							
74HC126	U100	74HC126		BUFFER	SSI/MSI	91,67	100,00	0,00	0,00	33,33
74HC126	U101	74HC126		BUFFER	SSI/MSI	83,33	100,00	0,00	0,00	8,33
<b>74HC126</b>	Number of parts:		<b>2</b>			<b>87,50</b>	<b>100,00</b>	<b>0,00</b>	<b>0,00</b>	<b>20,83</b>
	Covered solders / total solders:		<b>6/28</b>							
74HC244	U1001	74HC244		BUFFER	SSI/MSI	100,00	100,00	100,00	100,00	100,00
74HC244	U102	74HC244		BUFFER	SSI/MSI	66,67	100,00	0,00	0,00	11,11
<b>74HC244</b>	Number of parts:		<b>2</b>			<b>83,34</b>	<b>100,00</b>	<b>50,00</b>	<b>50,00</b>	<b>55,56</b>
	Covered solders / total solders:		<b>22/40</b>							
74HC365	U606	74HC365		BUFFER	SSI/MSI	42,86	100,00	100,00	100,00	100,00
74HC365	U607	74HC365		BUFFER	SSI/MSI	14,29	100,00	100,00	100,00	100,00
<b>74HC365</b>	Number of parts:		<b>2</b>			<b>28,58</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>32/32</b>							
74LVT16244	U1000	74LVT16244		BUFFER	SSI/MSI	100,00	100,00	100,00	100,00	100,00
74LVT16244	U604	74LVT16244		BUFFER	SSI/MSI	100,00	100,00	100,00	100,00	100,00
74LVT16244	U605	74LVT16244		BUFFER	SSI/MSI	75,00	100,00	100,00	100,00	100,00
<b>74LVT16244</b>	Number of parts:		<b>3</b>			<b>91,67</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>
	Covered solders / total solders:		<b>144/144</b>							
LCD16X1	DISP601	LCD16X1			SSI/MSI	8,33	0,00	0,00	0,00	0,00
<b>LCD16X1</b>	Number of parts:		<b>1</b>			<b>8,33</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>
	Covered solders / total solders:		<b>0/14</b>							
EPM7128S_TQFP1	U300	EPM7128S_TQFP			VLSI	77,38	100,00	100,00	100,00	82,14
<b>EPM7128S_TQF</b>	Number of parts:		<b>1</b>			<b>77,38</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>82,14</b>
	Covered solders / total solders:		<b>82/100</b>							
ISPLSI2064VE	U700	ISPLSI2064VE			VLSI	50,00	100,00	100,00	100,00	55,43
<b>ISPLSI2064VE</b>	Number of parts:		<b>1</b>			<b>50,00</b>	<b>100,00</b>	<b>100,00</b>	<b>100,00</b>	<b>55,43</b>
	Covered solders / total solders:		<b>55/100</b>							
XCS20XL	U603	XCS20XL			VLSI	76,19	100,00	100,00	100,00	71,43

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<b>part_no</b>	<b>ref</b>	<b>type</b>	<b>shape</b>	<b>function</b>	<b>complexity</b>	<b>access</b>	<b>esence</b>	<b>olarity</b>	<b>value</b>	<b>solder</b>
<b>XCS20XL</b>		Number of parts:	<b>1</b>			<u><b>76,19</b></u>	<u><b>100,00</b></u>	<u><b>100,00</b></u>	<u><b>100,00</b></u>	<u><b>71,43</b></u>
		Covered solders / total solders:	<b>71/100</b>							

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