

Date : 04-28-00 [13:19]  
 DSC Ltd. (Mfg)

ENGINEERING BOM

Page : 1  
 Company : 651

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 Approval Date: \_\_\_\_\_  
 \_\_\_\_\_  
 Approval Date: \_\_\_\_\_  
 \_\_\_\_\_  
 Approval Date: \_\_\_\_\_

Pos.	Component	Description	Component Type	Revi- sion	Length [ m ]	Width [ m ]	No. of Units	Net Quantity	Un.	Extra Info

E-Item : 81005275

WLS925 433-NA REV01 UA203

BOM Unit: 1 ea

Revision : 003

10	57000190	WLS-907 HARDWARE PACK	Item					1.0000	ea	
20	18005628	WLS925 433NA UNIVERSAL TRANSMI	E-Item	001				1.0000	ea	
30	29005100	WLS925-433 INIS ENG	E-Item	001				1.0000	ea	
60	17000075	3V LITHIUM BATTERY	Item					1.0000	ea	
70	70001129	WLS925 433-NA REV01 UA203	E-Item	003				1.0000	ea	
80	18004001	THERMAL TRANSFER LAB 1" X 0.5"	Item	001				1.0000	ea	

Project : 140015 UA203 REV01  
 WLS915 LC 433Mhz

Status : Active  
 Start Date:  
 Compl.Dte : 02-25-00

Customer:  
 Manufactured Item: 70001129  
 Revision : 003

WLS925 433-NA REV01 UA203

Unit: ea

Level	Pos.	Item	Description	Revision	IC	Length [m]	Width [m]	Number of Units	Net Quantity	Un.	Scp [%]	Wrh	Opr	Ph. tom
1	10	09000125	UA044 MINI SLTX BATTERY CONTAC		St				2.0000	ea		006		N
1	20	08000716	MINI-TX BATTERY HOLDER PLASTIC		St				1.0000	ea		006		N
1	30	73-00612	WLS925 433-NA REV01 UA203	005	Cu				1.0000	ea		910		N
.2	10	01000231	100K OHM 1/10W 5% SMD (0805) R		St				3.0000	ea		006	50	N

BOM Text  
 BOTTOM SIDE

Location	Net Quantity
R15	1.0000
R8	1.0000

.2	20	05000239	LM4041EIM3-1.2; ADJ. ZENER REG		St				1.0000	ea		006	50	N
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BOM Text  
 BOTTOM SIDE

Location	Net Quantity
D1	1.0000

.2	30	01000230	68K OHM 1/10W 5% SMD (0805) RA		St				2.0000	ea		006	50	N
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BOM Text  
 BOTTOM SIDE

Location	Net Quantity
R17	1.0000
R7	1.0000

.2	40	01000219	1K OHM 1/10W 5% SMD (0805) RAT		St				1.0000	ea		006	50	N
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BOM Text  
 BOTTOM SIDE

Location	Net Quantity
R19	1.0000

.2	50	03000125	100NF 10% -55~+125C SMD 0805		St				1.0000	ea		006	50	N
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BOM Text  
 BOTTOM SIDE

Project : 140015 UA203 REV01  
 WLS915 LC 433Mhz  
 Customer:  
 Manufactured Item: 70001129  
 Revision : 003

Status : Active  
 Start Date:  
 Compl.Dte : 02-25-00  
 WLS925 433-NA REV01 UA203

Unit: ea

Level	Pos.	Item	Description	Revi- sion	IC	Length [m ]	Width [m ]	Number of Units	Net Quantity	Un.	Scp [%]	Wrh	Opr	Ph. tom
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Location	Net Quantity
C8	1.0000

.2	60	03000135	330PF 10% -55~+125C SMD 0805		St				1.0000	ea		006	50	N
			BOM Text BOTTOM SIDE											

Location	Net Quantity
C9	1.0000

.2	70	05000089	GLASS PASSIVATED RECTIFIE PIV=		St				1.0000	ea		006	50	N
			BOM Text BOTTOM SIDE											

Location	Net Quantity
D2	1.0000

.2	80	01000218	10 OHM 1/10W 5% SMD (0805) RAT		St				3.0000	ea		006	50	N
			BOM Text BOTTOM SIDE											

Location	Net Quantity
R12	1.0000
R204	1.0000
R25	1.0000

.2	90	01000212	1M OHM 1/10W 5% SMD (0805) RAT		St				1.0000	ea		006	50	N
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Location	Net Quantity
R10	1.0000

.2	91	01000728	127K OHM 1/10W 1% SMD (0805) R		St				1.0000	ea		001		N
			BOM Text BOTTOM SIDE											

Location	Net Quantity

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Revision : 003

WLS925 433-NA REV01 UA203

Unit: ea

Level	Pos.	Item	Description	Revision	IC	Length [m]	Width [m]	Number of Units	Net Quantity	Un.	Scp [%]	Wrh	Opr	Ph. tom
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Location	Net Quantity
R31	1.0000

.2 | 92|01000727 | 100K OHM 1/10W 1% SMD (0805) R | |St| | | | 1.0000|ea | |001| |N

BOM Text  
BOTTOM SIDE

Location	Net Quantity
R29	1.0000

.2 | 100|03000121 | 39PF 5% -55~+125C SMD 0805 | |St| | | | 1.0000|ea | |001| 50|N

Location	Net Quantity
C3	1.0000

.2 | 110|03000129 | 12PF 5% -55~+125C SMD 0805 5 | |St| | | | 1.0000|ea | |006| 50|N

BOM Text  
BOTTOM SIDE

Location	Net Quantity
C4	1.0000

.2 | 120|01000247 | 100 OHM 1/10 5% SMD (0805) RAT | |St| | | | 2.0000|ea | |006| 50|N

BOM Text  
BOTTOM SIDE

Location	Net Quantity
R11	1.0000
R200	1.0000

.2 | 130|03000118 | 10NF 10% -55~+125C SMD 0805 5 | |St| | | | 2.0000|ea | |006| 50|N

BOM Text  
BOTTOM SIDE

Location	Net Quantity
C215	1.0000

Date : 04-28-00 [13:20]  
 DSC Ltd. (Mfg)

CUSTOMIZED MULTI-LEVEL BILLS OF MATERIAL  
 (Including Routing)

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Project : 140015 UA203 REV01  
 WLS915 LC 433Mhz

Status : Active  
 Start Date:  
 Compl.Dte : 02-25-00

Customer:  
 Manufactured Item: 70001129  
 Revision : 003

WLS925 433-NA REV01 UA203

Unit: ea

Level	Pos.	Item	Description	Revi- sion	IC	Length [m ]	Width [m ]	Number of Units	Net Quantity	Un.	Scp [%]	Wrh	Opr	Ph. tom
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Location	Net Quantity
C220	1.0000

.2	140	01000263	5.6K OHM 1/10W 5% SMD (0805) R		St				1.0000	ea		001	50	N
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Location	Net Quantity
R30	1.0000

.2	160	01000243	6.8K OHM 1/10W 5% SMD (0805) R		St				1.0000	ea		006	50	N
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BOM Text  
 BOTTOM SIDE

Location	Net Quantity
R34	1.0000

.2	170	24001409	SOFTWARE WLS925 433 NA V1.00	001	St				1.0000	ea		910	50	N
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Location	Net Quantity
U1	1.0000

.2	180	03000122	100PF 5% -55~+125C SMD 0805		St				1.0000	ea		006	50	N
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BOM Text  
 BOTTOM SIDE

Location	Net Quantity
C201	1.0000

.2	190	03000196	220PF 5% -55~+125C SMD 0805 5		St				1.0000	ea		006	50	N
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BOM Text  
 BOTTOM SIDE

Location	Net Quantity
C217	1.0000

.2	200	03000165	.47PF +/- .1PF -55~+125C SMD		St				1.0000	ea		006	50	N
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Project : 140015 UA203 REV01  
 WLS915 LC 433Mhz

Status : Active  
 Start Date:  
 Compl.Dte : 02-25-00

Customer:  
 Manufactured Item: 70001129  
 Revision : 003

WLS925 433-NA REV01 UA203

Unit: ea

Level	Pos.	Item	Description	Revision	IC	Length [m]	Width [m]	Number of Units	Net Quantity	Un.	Scp [%]	Wrh	Opr	Ph. tom
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BOM Text  
 BOTTOM SIDE

Location	Net Quantity
C207	1.0000

.2	210	03000131	4.7PF +/- .1PF -55~+125C SMD		St				1.0000	ea		001	50	N
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Location	Net Quantity
C216	1.0000

.2	211	03000137	3.9PF +/- .1PF -55~+125C SMD		St				1.0000	ea		006	20	N
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BOM Text  
 TOP SIDE

Location	Net Quantity
C228	1.0000

.2	220	16000116	Tact Switch Normally Open GND		St				1.0000	ea		006	70	N
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Location	Net Quantity
SW	1.0000

.2	230	16000104	Reed Switch Form A Cut & forme		St				1.0000	ea		006	70	N
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Location	Net Quantity
SW2	1.0000

.2	240	03000332	VAR. TRIM CAP 4.2~20PF RAD -55		St				1.0000	ea		006	70	N
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Location	Net Quantity
C5	1.0000

.2	250	14000038	TERMINAL BLOCK 2 POSITION (JTB		St				1.0000	ea		006	70	N
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Location	Net Quantity
A	1.0000

Project : 140015 UA203 REV01  
 WLS915 LC 433Mhz

Status : Active  
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 Compl.Dte : 02-25-00

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 Manufactured Item: 70001129  
 Revision : 003

WLS925 433-NA REV01 UA203

Unit: ea

Level	Pos.	Item	Description	Revision	IC	Length [m]	Width [m]	Number of Units	Net Quantity	Un.	Scp [%]	Wrh	Opr	Ph. tom
.2	260	22000153	6.78 MHZ 20PPM 2PIN HC49/U CL=		St				1.0000	ea		006	70	N

Location	Net Quantity
XTL	1.0000

.2	270	05000016	ZENER DIODE 15V 1W 10% IR=5		St				1.0000	ea		006	30	N
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Location	Net Quantity
ZD1	1.0000

.2	280	01000223	10K OHM 1/10W 5% SMD (0805) RA		St				2.0000	ea		006	20	N
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BOM Text  
 TOP SIDE

Location	Net Quantity
R32	1.0000
R33	1.0000

.2	290	01000240	33K OHM 1/10W 5% SMD (0805) RA		St				1.0000	ea		006	20	N
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BOM Text  
 TOP SIDE

Location	Net Quantity
R209	1.0000

.2	300	03000518	CAP SMD TANT. 4.7UF 6.3V +/- 2		St				1.0000	ea		006	20	N
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BOM Text  
 TOP SIDE

Location	Net Quantity
C7	1.0000

.2	310	03000118	10NF 10% -55~+125C SMD		St				3.0000	ea		006	20	N
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BOM Text  
 TOP SIDE

Location	Net Quantity

Date : 04-28-00 [13:20]  
 DSC Ltd. (Mfg)

**CUSTOMIZED MULTI-LEVEL BILLS OF MATERIAL**  
 (Including Routing)

Page : 7  
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Project : 140015 UA203 REV01  
 WLS915 LC 433Mhz

Status : Active  
 Start Date:  
 Compl.Dte : 02-25-00

Customer:  
 Manufactured Item: 70001129  
 Revision : 003

WLS925 433-NA REV01 UA203

Unit: ea

Level	Pos.	Item	Description	Revi- sion	IC	Length [m ]	Width [m ]	Number of Units	Net Quantity	Un.	Scp [%]	Wrh	Opr	Ph. tom
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Location	Net Quantity
C10	1.0000
C223	1.0000
C224	1.0000

.2		320	03000128	1NF 5% -55~+125C SMD 0805		St			3.0000	ea		006	20	N																														
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TOP SIDE																																												

Location	Net Quantity
C218	1.0000
C229	1.0000
C230	1.0000

.2		330	03000196	220PF 5% -55~+125C SMD 0805 5		St			2.0000	ea		006	20	N																														
<table border="1" style="width: 100%;"> <tr> <td colspan="15">BOM Text</td> </tr> <tr> <td colspan="15">TOP SIDE</td> </tr> </table>															BOM Text															TOP SIDE														
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TOP SIDE																																												

Location	Net Quantity
C11	1.0000
C225	1.0000

.2		340	01000235	1.8K OHM 1/10W 5% SMD (0805) R		St			1.0000	ea		006	20	N																														
<table border="1" style="width: 100%;"> <tr> <td colspan="15">BOM Text</td> </tr> <tr> <td colspan="15">TOP SIDE</td> </tr> </table>															BOM Text															TOP SIDE														
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TOP SIDE																																												

Location	Net Quantity
R208	1.0000

.2		350	01000218	10 OHM 1/10W 5% SMD (0805) RAT		St			2.0000	ea		006	20	N																														
<table border="1" style="width: 100%;"> <tr> <td colspan="15">BOM Text</td> </tr> <tr> <td colspan="15">TOP SIDE</td> </tr> </table>															BOM Text															TOP SIDE														
BOM Text																																												
TOP SIDE																																												

Location	Net Quantity
R207	1.0000
R210	1.0000



Project : 140015 UA203 REV01 Status : Active  
 WLS915 LC 433Mhz Start Date:  
 Customer: Compl.Dte : 02-25-00  
 Manufactured Item: 70001129 WLS925 433-NA REV01 UA203 Unit: ea  
 Revision : 003

Level	Pos.	Item	Description	Revi- sion	IC	Length [m ]	Width [m ]	Number of Units	Net Quantity	Un.	Scp [%]	Wrh	Opr	Ph. tom
.2	360	03000581	CAP SMD 2.2NF NPO 50V 5% (SIZE		St				1.0000	ea		006	20	N

BOM Text  
 TOP SIDE

Location	Net Quantity
C227	1.0000

.2	370	03000122	100PF 5% -55~+125C SMD 0805		St				2.0000	ea		006	20	N
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BOM Text  
 TOP SIDE

Location	Net Quantity
C205	1.0000
C211	1.0000

.2	380	01000219	1K OHM 1/10W 5% SMD (0805) RAT		St				1.0000	ea		006	20	N
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BOM Text  
 TOP SIDE

Location	Net Quantity
R203	1.0000

.2	390	03000125	100NF 10% -55~+125C SMD 0805		St				1.0000	ea		006	20	N
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BOM Text  
 TOP SIDE

Location	Net Quantity
C6	1.0000

.2	400	06000950	RF2 5/6 UHF/UHF TRANSMITTER 10		St				1.0000	ea		006	20	N
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BOM Text  
 TOP SIDE

Location	Net Quantity
U200	1.0000

.2	410	01000212	1M OHM 1/10W 5% SMD (0805) RAT		St				1.0000	ea		006	20	N
----	-----	----------	--------------------------------	--	----	--	--	--	--------	----	--	-----	----	---

Project : 140015 UA203 REV01  
 WLS915 LC 433Mhz  
 Customer:  
 Manufactured Item: 70001129  
 Revision : 003

Status : Active  
 Start Date:  
 Compl.Dte : 02-25-00  
 WLS925 433-NA REV01 UA203

Unit: ea

Level	Pos.	Item	Description	Revi- sion	IC	Length [m ]	Width [m ]	Number of Units	Net Quantity	Un.	Scp [%]	Wrh	Opr	Ph. tom
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BOM Text  
 TOP SIDE

Location	Net Quantity
R28	1.0000

.2	420	01000227	3.9K OHM 1/10W 5% SMD (0805) R		St				1.0000	ea		006	20	N
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BOM Text  
 TOP SIDE

Location	Net Quantity
R206	1.0000

.2	430	11001892	WLS915LC 433 (UA203) REV01		Cu				1.0000	ea		006	10	N
.2	440	03000119	1.2PF +/- .2PF -55~+125C SMD		St				1.0000	ea		006		N

BOM Text  
 BOTTOM SIDE

Location	Net Quantity
C14	1.0000

.2	450	10000173	3.5 TURN COIL; 22AWG, INT-DIA=		St				2.0000	ea		006		N
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BOM Text  
 TOP SIDE

Location	Net Quantity
L2	1.0000
L4	1.0000

.2	460	10000049	COIL 2.5 TURN GREEN 22AWG H=.3		St				2.0000	ea		006		N
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BOM Text  
 TOP SIDE

Location	Net Quantity
L1	1.0000
L3	1.0000

Project : 140015 UA203 REV01      Status : Active  
           WLS915 LC 433Mhz      Start Date:  
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 Manufactured Item: 70001129      WLS925 433-NA REV01 UA203      Unit: ea  
 Revision :      003

Level	Pos.	Item	Description	Revision	IC	Length [m]	Width [m]	Number of Units	Net Quantity	Un.	Scp [%]	Wrh	Opr	Ph. tom
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.2 Routing for Item 73-00612      WLS925 433-NA REV01 UA2      Routing Unit: 1 ea

Opr.	Task	Description	WCt	Machine	Setup Time	Run Time	Extra Info
10	210	Solder Screen PCBs	C00	DEK	0	0.500	
20	220	Place/Reflow SMD Components	C00	SMT2	0	0.075	
30	250	Sequence VCD Components	B40	SEQ1	0	0.003	
40	260	Insert VCD Components	B20	VCD1	0	0.004	
50	230	Place/Glue SMD Components	C00	SMT1	0	0.140	
60	300	Spot-Mask PCB Assemblies	D00		0	0.500	
70	280	Hand Insert Components	D00		0	0.600	
80	310	Wave Solder PCB Assemblies	E10	WAVE1	0	0.330	

1	40	12000469	SPRING L=.018" INSIDE=.121" OU	St				1.0000	ea		006	N
1	50	18003236	PAPER LABEL .23"x1" DURTRAN II	St				1.0000	ea		006	N
1	60	08001214	TOP WHITE PLASTIC FOR MINI SLI	St				1.0000	ea		006	N
1	70	08001213	BOTTOM WHITE PLASTIC FOR MINI	St				1.0000	ea		006	N
1	80	19000960	MINI SLIM TRANSMITTER (WLS925)	St				1.0000	ea		006	N

Location	Net Quantity
ANT1	1.0000

1	90	18004001	THERMAL TRANSFER LAB 1" X 0.5"	001	St			1.0000	ea		001	N
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