

ITEM	QTY	REF DES	DESCRIPTION	Mfg	Mfg Part Number
1	Ref		same as Assembly Dwg, TRF7960A Reader EVM (13.56 MHz) Rev /	Texas Inst	
2	Ref		same as Schematic, TRF7960 Reader EVM (13.56 MHz) Rev /	Texas Inst	
3	Ref		same as Bd Outline Dwg, TRF7960 Reader EVM (13.56 MHz) Rev /	Texas Inst	
4	Ref		same as Test Procedure, TRF7960 Reader EVM (13.56 MHz) Rev /	Texas Inst	
5					
6	1		same as PCB FAB, TRF7960 Reader EVM (13.56 MHz) Rev /	Texas Inst	
7	1		same as PCB Assy & Test TRF7960 Reader EVM (13.56 MHz) Rev /	ACD	
8					
9	1	J1	Connector, USB, (Type A), PCB R/A (Male)	Conec	33UBARS1-04PN1
10	1	J2	Header (JTAG), 2x6 PIN, (0.100 inch STR)	Molex	10-89-1121
11	DNP	J3	Connector, SMA (0.062 Edge Mount)	Johnson	142-0711-821
12	DNP	J3-Alt	Connector, SMA, Jack, (PCB Straight Mount), (Thru-Hole)	Johnson	142-0701-201
13					
14	1	S1	Switch, Reset, 1P1T, (20mA)	Panasonic	EVQ-PAC04M
15	1	Y1 (20 ppm)	Xtal, 13.56 MHz, (Xtal Load Cap = 18pF), (Ckt Caps = 27 pF)	Crystek	017486 Rev A
16			(20 ppm), (-40 to +85 deg C), (Package = HC49S SMD)		
17					
18	ALT	Y1 (50 ppm)	Xtal, 13.56 MHz, (Load Cap = 12pF), (Package = CSM-7)	ECS	ECS-135.600-CD-0374
19					
20	DNP	HDR-1, HDR-3	Header, 3-Pin, Male (2mm)	MLE	TSHS-203-S-06-GT-LF
21					
22	DNP	HDR-2	Header, 5-Pin, Male (2mm)	MLE	TSHS-205-S-06-GT-LF
23					
24	DNP	HDR-4, HDR-5, HDR-6	Header, 8-Pin, Male (2mm)	MLE	TSHS-208-S-06-GT-LF
25					
26					
27	DNP	HDR-7	Header, 6-Pin, Male (2mm)	MLE	TSHS-206-S-06-GT-LF
28					
29	Ref		Jumper (2mm)	MiniTek	86730-001LF
30					
31					
32	1	C40	Capacitor, 4.7uF, Tantalum, +/-20% (10V)	Kemet	T491A475M010AS
33	6	C3, 5, 7, 9, 25, 30	Capacitor, 2.2uF, Ceramic, +/-10%, X5R, (10V), (0603)	Kemet	C0603C225K8PACTU
34					
35					
36	3	C31, 41, 42	Capacitor, 0.1uF, X7R, (25V), (0603)	Panasonic	ECJ-1VB1E104K
37	6	C4, 6, 8, 10, 26	Capacitor, 0.01uF, (or 10nF), X7R, (25V), (0603)	Panasonic	ECJ-1VB1E103K
38		C33			
39					
40	2	C11,12	Capacitor, 1500pF, +/-10%, X7R, (50V), (0603)	Panasonic	ECJ-1VB1H152K
ALT	2	C11,12	Capacitor, 1500pF, +/-10%, X7R, (50V), (0603)	Kemet	C0603C152K5RACTU
41	2	C13, 14	Capacitor, 1200pF, +/-10%, X7R, (50V), (0603)	Panasonic	ECJ-1VB1H122K
42	2	C15, C18	Capacitor, 680pF, +/- 5%, NPO, (50V), (0603)	Panasonic	ECJ-1VC1H681J
43	1	C17	Capacitor, 220pF, +/- 5%, NPO, (50V), (0603)	Panasonic	ECJ-1VC1H221J
44	1	C19	Capacitor, 100pF, +/- 5%, NPO, (50V), (0603)	Panasonic	ECJ-1VC1H101J
ALT	1	C19	Capacitor, 100pF, +/- 5%, NPO, (50V), (0603)	Kemet	C0603C101J5GACTU
45	1	C24	Capacitor, 56pF, +/- 5%, NPO, (50V), (0603)	Panasonic	ECJ-1VC1H560J
46	1	C21	Capacitor, 47pF, +/- 5%, NPO, (50V), (0603)	Panasonic	ECJ-1VC1H470J
47	3	C1, 2, 20	Capacitor, 27pF, +/- 5%, NPO, (50V), (0603)	Panasonic	ECJ-1VC1H220J
ALT	3	C1, 2, 20	Capacitor, 27pF, +/- 5%, NPO, (50V), (0603)	Kemet	C0603C270J5GACTU
48	2	C22, 27	Capacitor, 10pF, +/- 5%, NPO, (50V), (0603)	Panasonic	ECJ-1VC1H100D
49					
50	DNP	C23	Capacitor, TBD	Panasonic	
51					
52	1	L1	Inductor, 150nH, (Q = 45), (ldc = 580 mA), (1008HS)	Coilcraft	1008CS-151XJLB
53	1	L2	Inductor, 330nH, (Q = 45), (ldc = 450 mA), (1008HS)	Coilcraft	1008CS-331XJLB
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ITEM	QTY	REF DES	DESCRIPTION	Mfg	Mfg Part Number
60	1	R11	Resistor, 47K (0.1W), (0603)	Panasonic	ERJ-3GEYJ473V
61	5	R13, 14, 24, 30,	Resistor, 10K (0.1W), (0603)	Panasonic	ERJ-3GEYJ103V
62		R31			
63					
64	4	R6 ,25, 26, 27	Resistor, 1K (0.1W), (0603)	Panasonic	ERJ-3GEYJ102V
65					
66	6	R15,16, 17, 18, 19	Resistor, 560 ohms (0.1W), (0603)	Panasonic	ERJ-3GEYJ561V
67		R20			
68					
69	1	R10	Resistor, 100 ohms (0.1W), (0603)	Panasonic	ERJ-3GEYJ101V
70	1	R3, 4	Resistor, 0 ohms (0.1W), (0603)	Panasonic	ERJ-3GEYJ0R00V
71					
72	DNP	R2, 12, 32	Resistor, TBD ohms (0.1W), (0603)		
73					
74	12	R212, 245	Resistor, 0 ohms (0.063W), (0402)	Panasonic	ERJ-2GE0R00X
75		450, 451, 452,			
76		453, 454, 455,			
77		456, 457			
78		723, 745			
79					
80	1	U1	CP2102, USB to UART, (-40 to 85 deg C), (28 pin QFN)	Silicon Labs	CP2102-GM
81	1	U2	MSP430F2370, (-40 to 85 deg C), (40 pin QFN)	Texas Inst	MSP430F2370 IRHA
82	1	U3	TRF7970A, HF RFID Reader, (-40 to 110 deg C), (32 pin QFN)	Texas Inst	TRF7970ARHBT
83	DNP	U4, U6	UHF Tag tuning		
84	DNP	U5	RI-UHF-IC116-00 (UHF Tag)	Texas Inst	RI-UHF-IC116-00
85					
86	1	LED1 (PWR)	LED: water clear lense - Green (565nm), (2.1V @ 10mA	LiteOn	LTST-C190GKT
87	1	LED2 (14443A)	LED: water clear lense - Red-Org (630nm), (2.0V @ 10mA,	LiteOn	LTST-C190EKT
88	1	LED3 (14443B)	LED: water clear lense - Yellow (585nm), (2.1V @ 10mA	LiteOn	LTST-C190YKT
89	1	LED4 (15693)	LED: water clear lense - Red (660nm), (1.8V @ 10mA	LiteOn	LTST-C190CKT
90	1	LED5 (Tag-It)	LED: water clear lense - Amber (610nm), (2.1V @ 10mA	LiteOn	LTST-C190AKT
91	1	LED6 (User App)	LED: water clear lense - Red-Org (630nm), (2.0V @ 10mA,	LiteOn	LTST-C190EKT
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93	1		Anti-Static Storage Bag (Zip Lock) (4 x 6 inches)	3M	2110R-4x6
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97			AR == As Required		
98					
99			DNP == Do Not Place		
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101			Ref == Reference Information		
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103					
104					

