

BOM		FCC ID: TW5T5886HAA	
Part name	Spec	Quant	Place
Resistance SMD , ROHS REACH	0Ω±5% 1/16W 0402 SMD	9	R20 R45 R46 R64 R88 R204 RB5 RB17 RB23
Resistance SMD , ROHS REACH	10KΩ±1% 1/16W 0402 SMD	4	R115 R124 R186 R83
Resistance SMD , ROHS REACH	1.5KΩ±5% 1/16W 0402 SMD	1	R66
Resistance SMD , ROHS REACH	22Ω±5% 1/16W 0402 SMD	2	R13 R35
Resistance SMD , ROHS REACH	30KΩ±1% 1/16W 0402 SMD	1	R151
Resistance SMD , ROHS REACH	3.3KΩ±1% 1/16W 0402 SMD	1	R28
Resistance SMD , ROHS REACH	470KΩ±5% 1/16W 0402 SMD	2	R40 R150
Resistance SMD , ROHS REACH	100Ω±5% 1/16W 0402 SMD	1	R68
Resistance SMD , ROHS REACH	100KΩ±5% 1/16W 0402 SMD	4	R25 R42 R47 R203
Resistance SMD , ROHS REACH	1MΩ±5% 1/16W 0402 SMD	1	R11
Resistance SMD , ROHS REACH	4.7KΩ±5% 1/16W 0402 SMD	21	R2 R3 R12 R14 R16 R17 R18 R19 R106 R108 R131 R133 RB2 RB4 RB6 RB9 RB11 RB12 RB13 RB14 RB15
Resistance SMD , ROHS REACH	10Ω±5% 1/16W 0402 SMD	1	R101
Resistance SMD , ROHS REACH	33Ω±5% 1/16W 0402 SMD	19	R4 R5 R37 R39 R44 R51 R69 R70 R75 R77 R79 R80 R81 R82 RB19 RB20 RB22 RB24 RB25
Resistance SMD , ROHS REACH	280KΩ±1% 1/16W 0402 SMD	2	R29 R32
Resistance SMD , ROHS REACH	20KΩ±1% 1/16W 0402 SMD	1	R188
Resistance SMD , ROHS REACH	97.6KΩ±1% 1/16W 0402 SMD	1	R23
Resistance SMD , ROHS REACH	80.6KΩ±1% 1/16W 0402 SMD	1	R24
Resistance SMD , ROHS REACH	1KΩ±1% 1/16W 0402 SMD	11	R33 R34 R36 R41 R59 R60 R67 R125 R126 R190 RB21
Resistance SMD , ROHS REACH	62KΩ±1% 1/16W 0402 SMD	2	R15 R27
Resistance SMD , ROHS REACH	270Ω±1% 1/16W 0402 SMD	2	R38 RB7
Resistance SMD , ROHS REACH	0Ω±5% 1/10W 0603 SMD	3	R127 R128 LY3
Resistance SMD , ROHS REACH	0Ω±5% 1/8W 0805 SMD	1	LY2
Resistance SMD , ROHS REACH	4×33Ω±5% 1/16W 0402 8P4R SMD	3	RN3 RN4 RN5
Capacitance SMD	100PF±5% 50V COG SMD 0402	1	C4
Capacitance SMD	0.1uF±10% 16V X5R SMD 0402	51	C5 C6 C8 C9 C11 C14 C15 C16 C17 C18 C19 C24 C25 C26 C27 C28 C33 C35 C37 C42 C44 C47 C49 C51 C52 C55 C59 C71 C74 C76 C81 C91 C92 C103 C104 C107 C108 C109 C111 C112 C114 C115 C145 CB2 CB3 CB4 CB6 CB7 CB8 CB14 CB15
Capacitance SMD	1uF±10% 10V X5R SMD 0402	5	C2 C29 C94 C97 CB9
Capacitance SMD	18PF±5% 50V COG SMD 0402	2	C31 C32
Capacitance SMD	15PF±5% 50V COG SMD 0402	4	C64 C85 C100 C147
Capacitance SMD	22PF±5% 50V COG SMD 0402	1	C3
Capacitance SMD	27PF±5% 50V COG SMD 0402	3	C12 C95 C96
Capacitance SMD	2.2uF±20% 6.3V X5R SMD 0402	7	C30 C39 C48 C50 C93 CB1 CB5
Capacitance SMD	4.7uF±10% 10V X5R SMD 0603	4	C34 C36 C53 C73
Capacitance SMD	10uF±20% 10V X5R SMD 0603	8	C7 C10 C13 C22 C23 C40 C41 C46
Capacitance SMD	10uF+80%~-20% 10V Y5V SMD 0805	12	C1 C21 C38 C43 C60 C70 C72 C78 C87 C88 C106 C149
Capacitance SMD	22uF±20% 6.3V X5R SMD 0805	13	C56 C57 C63 C77 C79 C80 C82 C84 C86 C146 CB11 CB13 C89

Magnetic beads inductance	1000 $\Omega \pm 25\%$ DCR $\leq 1.2 \Omega$ IDC $\leq 200\text{mA}$ SMD 0402	1	FB9
Magnetic beads inductance	600 $\Omega \pm 25\%$ DCR $\leq 0.08 \Omega$ IDC $\leq 250\text{mA}$ SMD 0402	7	R98 FA1 FB1 FB2 FB4 FB5 FB6
Winding power inductors	10uH $\pm 20\%$ DCR $\leq 0.21 \Omega$ IDC $\leq 550\text{mA}$ $\Phi 4.0 \times 4.0 \times 1.8\text{mm}$ SUNLORD	4	L1 L2 L3 L4
Schottky diodes	B5819W SOD-123 SMD	1	D3
Schottky diodes	BAT41 SOD-123 SMD	1	D4
MOS	SI2301 P SOT-23 SMD	2	Q5 Q7
MOS	SI2302A SOT-23 SMD	2	Q3 Q4
IC power chip	SY8088AAC SOT23-5 SILERGY	4	U4 U5 U8 U13
IC RF chip	SEMI8312H WDFN-8	1	U9
IC audio chip	SC8002B SOP8 GXW	1	U11
IC	DH2803 SOP-18	1	U2
IC	HI3518ERBCV200 TFBGA192 MCU	1	U1
IC	STC15W404AS SSOP20 STC T5886F	1	U18
IC	STC15W404AS SSOP20 STC	1	U18
IC	KH25L12835FM2I-10G SOP8 5886 V200 GOSCOM 3.5	1	U12
crystal	24.000000MHz $\pm 30\text{PPM}$ 20PF SMD 3225	1	Y1
crystal	32.768KHz $\pm 20\text{PPM}$ 12.5PF SMD MC-146	1	Y2
connector	2PIN PINPITCH=1.25mmmm 180° SMD	3	J6 JA1 SPEEK1
connector	4 PINPITCH=1.25mmmm 180° SMD	1	J7
connector	5 PINPITCH=1.50mm H=5mm 180° SMD	2	MOTOL1 MOTOV1
FPC connector	26PIN PITCH=0.50mm SMD	1	J4
TF connector	CARD SOCKET SMD	1	J5
WIFI module	RL-UM12BS-8188EUS-V1.4 6PINmm SMD	1	U7
PCB	T5886HAA M03 74.3 $\times$ 79.58 $\times$ 1.6mm FR4	1	P1
Resistance SMD , ROHS REACH	33K $\Omega \pm 1\%$ 1/16W 0402 SMD	1	R61
Magnetic beads inductance	220 $\Omega \pm 25\%$ DCR $\leq 0.1 \Omega$ IDC $\leq 2000\text{mA}$ SMD 0805	5	R55 R56 R62 R116 LY1
Stacking inductance	2.2nH $\pm 5\%$ DCR $\leq 0.16 \Omega$ IDC $\leq 400\text{mA}$ SMD 0402	1	R48
Capacitance SMD	1.2 $\pm 0.1\text{PF}$ 50V NPO SMD 0402	1	C54
switch	7.3 $\times$ 3.5 $\times$ 4.3mm 0.8mm 90° DIP	1	SW1
DC connector	$\Phi 3.5 \times 1.35\text{mm}$ 90° 3PIN DIP	1	J8
LED	RS-305SRGW 80° 日月光 $\Phi 3.0\text{mm}$ DIP	1	D13
Common mode inductance	DCR $\leq \Omega$ IDC $\leq \text{mA}$ 15 $\times$ 5.4 $\times$ 15mm V1881264	1	L5
Resistance SMD , ROHS REACH	22 $\Omega \pm 5\%$ 1/16W 0402 SMD	5	R85 RA1 RA2 RA3 RA4
Resistance SMD , ROHS REACH	10K $\Omega \pm 5\%$ 1/16W 0402 SMD	1	R5
Resistance SMD , ROHS REACH	100K $\Omega \pm 5\%$ 1/16W 0402 SMD	3	R9 R6 R50
Resistance SMD , ROHS REACH	1M $\Omega \pm 5\%$ 1/16W 0402 SMD	1	R7
Resistance SMD , ROHS REACH	120 $\Omega \pm 1\%$ 1/16W 0402 SMD	1	R1
Resistance SMD , ROHS REACH	1K $\Omega \pm 1\%$ 1/10W 0603 SMD	1	R19
Resistance SMD , ROHS REACH	0 $\Omega \pm 5\%$ 1/8W 0805 SMD	2	FB1 FB2
Resistance SMD , ROHS REACH	10 $\Omega \pm 5\%$ 1/8W 0805 SMD	3	R2 R13 R3
Capacitance SMD	0.01uF $\pm 10\%$ 25V X7R SMD 0402	1	C35

Capacitance SMD	1000PF±10% 50V X7R SMD 0402	1	C36
Capacitance SMD	0.1uF±10% 16V X5R SMD 0402	12	C11 C12 C21 C22 C25 C26 C27 C28 C30 C31 C34 C78
Capacitance SMD	1uF±10% 10V X5R SMD 0402	4	C29 C37 C102 C103
Capacitance SMD	27PF±5% 50V COG SMD 0402	12	C3 C4 C5 C6 C7 C8 C9 C10 C13 C14 C15 C17
Capacitance SMD	10uF±20% 6.3V X5R SMD 0603	3	C23 C24 C32
Capacitance SMD	10uF+80%~-20% 10V Y5V SMD 0805	6	C1 C2 C18 C19 C20 C101
Magnetic beads inductance	600Ω±25% DCR≤0.5ΩΩ IDC≤200mA mA SMD 0402	2	R45 R46
Transistor	2SC4672 SOT-89 R SMD	1	Q4
Photosensitive chip	OV9732 BGA-35 0V	1	U4
IC	BL9198 3.3V SOT23-5	1	U8
IC power chip	CL9198A18L5M 1.8V SOT23-5	1	U3
IC	AE1511B SOT-26	1	U1
connector	2PIN PINPITCH=1.25mmmm 180° SMD	1	J7
connector	4 PINPITCH=1.25mmmm 180° SMD	1	J1
FPC connector	26PIN PITCH=0.50mm SMD	1	J2
PCB	T5886HAA C02 38×46.1×1.2 mm FR4	1	P1
Magnetic beads inductance	220Ω±25% DCR≤0.5ΩΩ IDC≤200mA mA SMD 0402	11	R26 R32 R42 RA5 RA6 RA7 RA8 RA9 RA10 RA11 RA12
PCB REACH 4P PAH,	U5886A-IR03 34×34×0.8mm FR4	1	P1
Carbon film resistors	5.6Ω±5% 1/10W 0603 SMD	3	R10 R11 R12
Infrared emission tube	120° IF=50mA 灯芯12*12 Φ5.0mm DIP	9	D2 D3 D4 D5 D6 D7 D8 D9 D10
diode	XYC-PT5P560G-A6 DIP	1	R9
connector	2PIN PITCH=1.27mm H=19mm 180° DIP	2	J1 J2

RL-UM12BS-8188EUS-V1.2 BOM

File NO.: RD-C-RL-UM12BS-8188EUS-V1.2-A/0

RL-UM12BS-8188EUS-V1.2 BOM						
Item	Part Class	Description	Package	Reference	Qty	Manufacturer P/N.
1	RES-SMD	RES-SMD 0402 1/16W 0R +/-5%	0402	C17,R21	2	
2	RES-SMD	RES-SMD 0402 1/16W 10K +/-5%	0402	R4,R29	2	
3	RES-SMD	RES-SMD 0402 1/16W 24K +/-5%	0402	R16	1	
4	RES-SMD	RES-SMD 0402 1/16W 1M +/-5%	0402	R43	1	
5	CAP-SMD	CCAP-SMD 0402 0.5pF 50V +/-0.25pF	0402	C12	1	
6	CAP-SMD	CCAP-SMD 0402 1.2pF 50V +/-0.25pF	0402	C7,C13,C15,C50,C78,C79	6	
7	CAP-SMD	CCAP-SMD 0402 6.8pF 50V +/-0.25pF	0402	C9,C16	2	
8	CAP-SMD	CCAP-SMD 0402 10pF 50V +/-5%	0402	C8	1	
9	CAP-SMD	CCAP-SMD 0402 12pF 50V +/-5%	0402	C41	1	
10	CAP-SMD	CCAP-SMD 0402 15pF 50V +/-5%	0402	C40	1	
11	CAP-SMD	CCAP-SMD 0402 100pF 50V +/-5%	0402	C39	1	
12	CAP-SMD	CCAP-SMD 0402 0.1uF 50V +/-20%	0402	C3,C4,C18,C24,C29,C35,C37,C44,C45	10	
13	CAP-SMD	CCAP-SMD 0603 10uF 6.3V +/-5% X5R	0603	C2,C46,C42	3	
14	Induc-SMD	RF Induc-SMD 0402 2.7nH 300mA +/-0.3nH	0402	L3	1	
15	Induc-SMD	RF Induc-SMD 0402 3.3nH 300mA +/-0.3nH	0402	L5	1	
16	Induc-SMD	RF Induc-SMD 0402 10nH 300mA +/-0.3nH	0402	L1,L2,L6	3	
17	Induc-SMD	Power Induc-SMD 2012 4.7uH 800mA 2012 2.0*1.25*0.9 Sunlord:MPL2012S4R7MHT	0805	L10	1	
18	XTAL	Crystal-SMD 40MHz CL=15pF 10ppM LF 3225	3225	XTAL1	1	
19	IC	IC Smart MAC/BBP/RF controller, RTL8188EUS QFN46	QFN46	U6	1	RTL8188US
20	PCB	PCB RL-UM12BS V1.2 4L FR4 ROHS GOLD 12.2*12.8 +/-0.2mm	PCB	PCB	1	RL-UM12BS

拟制:

审核:

批准: