

Part	Value	Device	Package	Description
ICTS	TPTP10R	TPTP10R	TP10R	Test pad
IRTS	TPTP10R	TPTP10R	TP10R	Test pad
3.3V	TPB2,54	TPB2,54	B2,54	Test pad
5V	TPB2,54	TPB2,54	B2,54	Test pad
12V	TPB2,54	TPB2,54	B2,54	Test pad
C1	0.1u	C-EUC0805	C0805	CAPACITOR, European symbol
C2	10uF	CPOL-EUB	PANASONIC_B	POLARIZED CAPACITOR
C3	4.7u	C-EUC1206	C1206	CAPACITOR, European symbol
C4	4.3p	C-EUC0805	C0805	CAPACITOR, European symbol
C5	4.3p	C-EUC0805	C0805	CAPACITOR, European symbol
C6	2.2n	C-EUC0805	C0805	CAPACITOR, European symbol
C7	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C8	10nF	C-EUC0805	C0805	CAPACITOR, European symbol
C9	820uF	CPOL-EUE7.5-16	E7,5-16	POLARIZED CAPACITOR
C10	100uF	CPOL-EUE	PANASONIC_E	POLARIZED CAPACITOR
C11	0.1u	C-EUC0805	C0805	CAPACITOR, European symbol
C12	47uF	CPOL-EUF	PANASONIC_F	POLARIZED CAPACITOR
C13	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C16	820uF	CPOL-EUE7.5-16	E7,5-16	POLARIZED CAPACITOR
C18	4.7uF	C-EUC1206	C1206	CAPACITOR, European symbol
C19	0.1u	C-EUC0805	C0805	CAPACITOR, European symbol
C20	4.3p	C-EUC0805	C0805	CAPACITOR, European symbol
C21	4.3p	C-EUC0805	C0805	CAPACITOR, European symbol
C22	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C23	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C24	820uF	CPOL-EUE7.5-16	E7,5-16	POLARIZED CAPACITOR
C25	30F	CPOL-EUE7.5-16	E7,5-16	POLARIZED CAPACITOR
C27	30F	CPOL-EUE7.5-16	E7,5-16	POLARIZED CAPACITOR
C28	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C29	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C30	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C31	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C32	0.1u	C-EUC0805	C0805	CAPACITOR, European symbol
C33	0.1u	C-EUC0805	C0805	CAPACITOR, European symbol
C34	30F	CPOL-EUE7.5-16	E7,5-16	POLARIZED CAPACITOR
C35	30F	CPOL-EUE7.5-16	E7,5-16	POLARIZED CAPACITOR
C36	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C37	4.7uF	C-EUC1206	C1206	CAPACITOR, European symbol
C38	4.7uF	C-EUC1206	C1206	CAPACITOR, European symbol
C39	22uF	CPOL-EUD	PANASONIC_D	POLARIZED CAPACITOR
C40	1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C41	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C42	820uF	CPOL-EUE7.5-16	E7,5-16	POLARIZED CAPACITOR
C43	4.7uF	C-EUC1206	C1206	CAPACITOR, European symbol
C44	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C45	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
C46	0.1uF	C-EUC0805	C0805	CAPACITOR, European symbol
CL	TPTP10R	TPTP10R	TP10R	Test pad
D1	SMBJ43CA	DIODE-SMB	SMB	DIODE

D2	16V	SOD80C	SOD80C	Z-Diode
D3	1N4148W	D-SOD123	SOD123	DIODE
D4	SS16	DIODE-DO214AC	DO214AC	DIODE
D5	1N4148W	D-SOD123	SOD123	DIODE
D6	ES2D	ES2D	SMB	DIODE
D7	12V	SOD80C	SOD80C	Z-Diode
D9	3.3V	SOD80C	SOD80C	Z-Diode
D10	1N4148W	D-SOD123	SOD123	DIODE
D11	1N4148W	D-SOD123	SOD123	DIODE
D12	1N4148W	D-SOD123	SOD123	DIODE
D13	1N4148W	DIODE-SOD123	SOD123	DIODE
D14	12V	SOD80C	SOD80C	Z-Diode
D15	1N4148W	D-SOD123	SOD123	DIODE
D16	12V	SOD80C	SOD80C	Z-Diode
D17	SS14	MBRA340T3	SMA	Schottky Power Rectifier
D18	SS14	MBRA340T3	SMA	Schottky Power Rectifier
DA	TPTP10R	TPTP10R	TP10R	Test pad
F1	30A	SH32	SH32	FUSE HOLDER 6 x 32 mm
IC0	LM2575SHVT-5.0	LM2575S-5.0	TO170P	Step-Down Voltage Regulator
IC1	LM317MS	LM317MSTT3	SOT223	500 mA LRO
IC2	LM2937	LM2937	TO263-3	LM2937-3.3
IC3	MPU-6050	MPU-6050	QFN50	(Gyro + Accelerometer)
IC4	FT230XS	FT230XS	SSOP16	USB to BASIC UART IC
IC5	BTS6133	BTS6133DT	TO252-5-11	
IC6	ALD810025	ALD810017SCLI	SOIC127P600X17	Mosfet Quad Sab 10.6v
IC7	STM32F401RET6	STM32F401RET6	QFP50P1200X120	MCU 32-Bit STM32 ARM
INT	TPTP10R	TPTP10R	TP10R	Test pad
L1	330uH	DR125	DR125	Shielded Inductors
L2	47uH	IHLP6767G	ER-2	IHLP Series 6767 33 uH 20%
36892	green	LEDCHIPLED_1206	CHIPLED_1206	LED
37257	yellow	LEDCHIPLED_1206	CHIPLED_1206	LED
37622		LEDCHIPLED_1206	CHIPLED_1206	LED
OK1	TLP283-4	TLP283-4	MINI-FLAT-16	PHOTOCOUPLER GaAs
OK2	TLP283-4	TLP283-4	MINI-FLAT-16	PHOTOCOUPLER GaAs
OK3	TLP283	TLP283	MINI-FLAT-4	PHOTOCOUPLER GaAs
OK4	TLP283	TLP283	MINI-FLAT-4	PHOTOCOUPLER GaAs
OK5	TLP283	TLP283	MINI-FLAT-4	PHOTOCOUPLER GaAs
OK6	TLP283	TLP283	MINI-FLAT-4	PHOTOCOUPLER GaAs
PA0	TPTP10R	TPTP10R	TP10R	Test pad
PA1	TPTP10R	TPTP10R	TP10R	Test pad
PC2	TPTP10R	TPTP10R	TP10R	Test pad
PC3	TPTP10R	TPTP10R	TP10R	Test pad
PC13	TPTP10R	TPTP10R	TP10R	Test pad
Q1	IRLZ44N	IRF740	TO220BV	N-CHANNEL MOS FET
Q2	IRLZ44N	IRF740	TO220BV	N-CHANNEL MOS FET
Q3	IRLZ44N	IRF740	TO220BV	N-CHANNEL MOS FET
Q4	IRLZ44N	IRF740	TO220BV	N-CHANNEL MOS FET
Q5	IRLZ44N	IRF740	TO220BV	N-CHANNEL MOS FET
Q6	IRLZ44N	IRF740	TO220BV	N-CHANNEL MOS FET
Q7	SPP18P06P	TO220BV	TO220BV	Power MOSFET P-Channel

Q8	IRLZ44N	IRF740	TO220BV	N-CHANNEL MOS FET
Q9	32kHz	CRYSTALMM20SS	MM20SS	CRYSTAL
Q10	HC49 8MHZ	XTAL/S	QS	CRYSTAL
Q11	FDN5618P	PMOSSOT23	SOT-23	MOS FET
Q12	FDN5618P	PMOSSOT23	SOT-23	MOS FET
Q13	FDN5618P	PMOSSOT23	SOT-23	MOS FET
R1	4k7	R-EU_R1206	R1206	RESISTOR, European symbol
R2	3k3	R-EU_R0805	R0805	RESISTOR, European symbol
R3	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R4	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R5	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R6	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R7	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R8	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R9	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R10	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R11	1k	R-EU_R1206	R1206	RESISTOR, European symbol
R12	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R13	1k	R-EU_R1206	R1206	RESISTOR, European symbol
R14	1k5	R-EU_R1206	R1206	RESISTOR, European symbol
R15	1k	R-EU_R1206	R1206	RESISTOR, European symbol
R16	1k5	R-EU_R1206	R1206	RESISTOR, European symbol
R17	1k	R-EU_R1206	R1206	RESISTOR, European symbol
R18	1k5	R-EU_R1206	R1206	RESISTOR, European symbol
R19	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R20	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R21	1k	R-EU_R1206	R1206	RESISTOR, European symbol
R22	820	R-EU_R1206	R1206	RESISTOR, European symbol
R23	9k1	R-EU_R1206	R1206	RESISTOR, European symbol
R24	10k	R-EU_R0805	R0805	RESISTOR, European symbol
R25	10k	R-EU_R0805	R0805	RESISTOR, European symbol
R26	75	R-EU_R1206	R1206	RESISTOR, European symbol
R27	75	R-EU_R1206	R1206	RESISTOR, European symbol
R28	820	R-EU_R1206	R1206	RESISTOR, European symbol
R29	820	R-EU_R1206	R1206	RESISTOR, European symbol
R30	1k5	R-EU_R1206	R1206	RESISTOR, European symbol
R31	1k5	R-EU_R0805	R0805	RESISTOR, European symbol
R32	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R33	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R34	3k3	R-EU_R0805	R0805	RESISTOR, European symbol
R35	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R36	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R37	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R38	240	R-EU_R1206	R1206	RESISTOR, European symbol
R39	4k7	R-EU_R0805	R0805	RESISTOR, European symbol
R40	4k7	R-EU_R1206	R1206	RESISTOR, European symbol
R41	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R42	100	R-EU_R1206	R1206	RESISTOR, European symbol
R43	33	R_HEATD2PAK	D2PACK	RESISTOR, European symbol
R44	4k7	R-EU_R0805	R0805	RESISTOR, European symbol

R45	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R46	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R47	100	R-EU_R1206	R1206	RESISTOR, European symbol
R48	100	R-EU_R1206	R1206	RESISTOR, European symbol
R49	120	RMNS-5	MNS-5	Power Resistor
R50	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R51	3k3	R-EU_R0805	R0805	RESISTOR, European symbol
R52	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R53	5k	TRIM_EU-SM-42/43	SM-42/43B	POTENTIOMETER
R54	1k	R-EU_R0805	R0805	RESISTOR, European symbol
R55	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R56	3k3	R-EU_R0805	R0805	RESISTOR, European symbol
R57	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R58	4k7	R-EU_R0805	R0805	RESISTOR, European symbol
R59	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R60	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R61	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R62	9k1	R-EU_R0805	R0805	RESISTOR, European symbol
R63	3k3	R-EU_R0805	R0805	RESISTOR, European symbol
R64	NM	R-EU_R0805	R0805	RESISTOR, European symbol
R65	NM	R-EU_R0805	R0805	RESISTOR, European symbol
R66	10	R-EU_R0805	R0805	RESISTOR, European symbol
R67	10	R-EU_R0805	R0805	RESISTOR, European symbol
R68	10	R-EU_R0805	R0805	RESISTOR, European symbol
R69	10	R-EU_R0805	R0805	RESISTOR, European symbol
R70	10	R-EU_R0805	R0805	RESISTOR, European symbol
R71	10	R-EU_R0805	R0805	RESISTOR, European symbol
R72	10	R-EU_R0805	R0805	RESISTOR, European symbol
R73	1k	R-EU_R0805	R0805	RESISTOR, European symbol
SJ1		SJ	SJ	SMD solder JUMPER
SJ2		SJ	SJ	SMD solder JUMPER
SJ3		SJW	SJW	SMD solder JUMPER
SW1	4-1437565-1	4-1437565-1	SW_4-1437565-1	Round Button
SW2	4-1437565-1	4-1437565-1	SW_4-1437565-1	Round Button
VBAT	CR2032V	CR2032V	CR2032V	LI BATTERY Varta
X1		AK500/4	AK500/4	CONNECTOR
X2	USB-A	USB-A1HSW6	OST_USB-A1HSW	USB - A
X3		AK500/5	AK500/5	CONNECTOR
X4	282845-3	282845-3	TE_282845-3	
X5	USB-B	AU-Y1007	ASSMANN_AU-Y1	USB - B
X6		MA04-1	MA04-1	PIN HEADER
X7	282845-2	282845-2	TE_282845-2	
	SSW-105-02-F-D-	SSW-105-02-F-D-	SSW-105-02-F-D-	
X8	RAJ	RAJ	RA	
	SSW-105-02-F-D-	SSW-105-02-F-D-	SSW-105-02-F-D-	
X9	RAJ	RAJ	RA	