















J9

Comment	Description	Designator	Footprint	LibRef	Quantity
100nF	Capacitor, Ceramic, SMD, 100nF, 50V, 5%,	C1, C2, C3, C4, C10	Cap_Ceramic_0603	100nF 50V 5% X7R	
	X7R, 0603 Capacitor, Ceramic,			0603	
4u7	SMD, 4u7, 50V, 5%, X7R, 0603 Capacitor, Ceramic,	C5, C8, C13, C14	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	
100nF 100V	SMD, 100nF, 100V, 5%, X7R, 0603	C6, C7, C15	Cap_Ceramic_0603	100nF 100V 5% X7R 0603	
1uF	Capacitor, Ceramic, SMD, 1uF, 25V, 5%, X7R, 0603	C9	Cap_Ceramic_0603	1uF 25V 5% X7R 0603	
4u7 50V 5%	Capacitor, Ceramic, SMD, 4u7, 50V, 5%, X7R, 0603	C11	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	
470nF 50V 5%	Capacitor, Ceramic, SMD, 470nF, 50V, 5%, X7R, 0603	C12	Cap_Ceramic_0603	470nF 50V 5% X7R 0603	
100nF 50V	Capacitor, Ceramic, SMD, 100nF, 50V, 5%, X7R, 0603	C16, C17	Cap_Ceramic_0603	100nF 50V 5% X7R 0603	
22uF 35V	22μF ±20% 35V Ceramic Capacitor X5R 1206 (3216	C18	Cap_Ceramic_1206	22uF 35V 20% X5R 1206	
47uF 16V 1210	Metric) Capacitor, Ceramic, SMD, 47uF, 16V, 5%,	C19	Cap_Ceramic_1210	47uF 16V 10% X7R 1210	
0.1u	X7R, 1210 Capacitor, Ceramic, SMD, 4u7, 50V, 5%,	C20_A, C20_B	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	
1N4448WQ-7-F	X7R, 0603 Diode, SMD, 75V, 5%,	D1	SMA	1N4448WQ-7-F	
NUP2105L	250mA, SOD123 NUP2105L	D2, D3	NUP2105L	NUP2105L	
B260A-13-F	Diode, Schottky Barrier Rectifier, 60	D4	SMA	B260A-13-F	
LED Orange	V, 2 A, B260A-13-F	DS1, DS2	LED ORANGE 0603	LED ORANGE 0603	
LED Red 0603 LED Green 0603	LED Red 0603 LED Green 0603	DS3, DS4 DS5, DS6, DS11	LED RED 0603 LED GREEN 0603	LED Red 0603 LED Green 0603	
LED Blue 0603		DS7, DS8, DS9, DS10	LED BLUE 0603 SOIC127P600X175-	LED BLUE 0603	
AM26LS32ACDR	Integrated Circuit	IC2_A, IC2_B	16N	AM26LS32ACDR	
JST PH 8x Right comb JST PH 5x RIGHT		J1, J5	JST PH 8x RIGHT SMD JST PH 5x RIGHT	JST PH 8x Right comb JST PH 5x RIGHT	
COMB		J2, J6	COMB	COMB	
JST PH 2x RIGHT COMB		13, 14	JST PH 2x RIGHT COMB	JST PH 2x RIGHT COMB	
IDC 10P 2x5 1.27mm MX120G	MX120G with standard connector	J7 J8, J9	IDC 1.27MM 10P MX120G	IDC 10P 2x5 1.27mm MX120G	
JST PH 4x RIGHT	layout		JST PH 4x RIGHT	JST PH 4x RIGHT	
COMB	harman 2000 o Clair	J10	COMB	COMB	
Jumper 2Way Pins	Jumper 2Way Side Pins	J11, J12, J13, J14, J15	Jumper_2Way_Pin	Jumper 2Way Side Pins	
47uH inductor Hole M3 Tight	Inductor	L1	SDR7045-470K	SDR7045-470K Hole M3 Tight	
Unplated Header 3	M3.2 Hole, No Plating Header, 3-Pin	M1, M2, M3, M4, M5 P1	M3.2 UNPLATED HDR1X3	Unplated Header 3	
10k 1% 0603	Resistor, SMD, 20k,	R1	Res_ThinFilm_0603	20k 1% 0603	
4k7	0.1W, 5%, 0603 Resistor, SMD, 4k7,	R2	Res ThinFilm 0603	4k7 5% 0603	
	0.1W, 5%, 0603 Resistor, SMD, 330R,	R3, R4, R21, R22, R24,	-		
330R	0.1W, 5%, 0603 Resistor, SMD, 220R,	R25	Res_ThinFilm_0603	330R 5% 0603	
220R	0.1W.5%.0603	R5, R6, R7, R8	Res_ThinFilm_0603	220R 5% 0603	
4k7 5% 0603	Resistor, SMD, 4k7, 0.1W, 5%, 0603	R9, R10, R11, R14	Res_ThinFilm_0603	4k7 5% 0603	
2M2 1%	Resistor, SMD, 2M2, 0.125W, 1%, 0603	R12, R13	Res_ThinFilm_0603	2M2 1% 0603	L
150k 5% 0603	Resistor, SMD, 150k, 0.1W, 5%, 0603	R15	Res_ThinFilm_0603	150k 5%, 0603	
390k 5%	Resistor, SMD, 390k,	R16	Res_ThinFilm_0603	390k 5% 0603	
240k 5%	0.1W, 5%, 0603 Resistor, SMD, 240k,	R17	Res_ThinFilm_0603	240k 5% 0603	
1k 5% 0603	0.1W, 5%, 0603 Resistor, SMD, 1k,	R18	Res ThinFilm 0603	1k 5% 0603	
	0.1W, 5%, 0603 Resistor, SMD, 22R,				
22R	0.1W, 1%, 0603 Resistor, SMD, 120R,	R19, R20	Res_ThinFilm_0603	22R 1% 0603	
120R 1% 1210	0.25W, 1%, 1210	R23, R26	Res_ThinFilm_1210	120R 1% 1210	
64k9 1%	Resistor, SMD, 64k9, 0.1W, 5%, 0603	R27	Res_ThinFilm_0603	64k9 1% 0603	
1k	Resistor, SMD, 1k, 0.1W, 5%, 0603	R28	Res_ThinFilm_0603	1k 5% 0603	
19k6 1%	Resistor, SMD, 19k6, 0.1W, 5%, 0603	R29	Res_ThinFilm_0603	19k6 1% 0603	
120R	Resistor, SMD, 120R, 0.25W, 1%, 1210	R30_A, R30_B, R31_A, R31_B, R32_A, R32_B	Res_ThinFilm_1210	120R 1% 1210	
	MicroSD Card				
47219-2001	Connector, Hinge Type, -40 to 85 degC, 8-Pin SMD, RoHS, Tape and Reel	SD1	47219-2001	47219-2001	
B3U-1000P	Omron B3U-1000P Ultra Miniture Switch	SW1	BTN B3U-1000P	BTN B3U-1000P	
TestPoint		TP1, TP2, TP3	TestPointSMD	TestPoint	
TestPoint_SMD		TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14	TestPointSMD	TestPoint_SMD	
	ARM® Cortex®-M3 STM32F1				
STM32F105RC	Microcontroller IC 32- Bit 72MHz 256KB (256K x 8) FLASH 64-	U1	STM32F105RC	STM32F105RC	
	LQFP (10x10)				
	on 8MHz XO (Standard) CMOS	U2	DSC1001DI1- 008.0000TCT-ND	DSC1001DI1- 008.0000T	
DSC1001DI1-	Oscillator 1.8 - 3.3V		ood.00001CT-ND	000.00001	1
DSC1001DI1- 008.0000T	Oscillator 1.8 - 3.3V Standby (Power Down) 4-SMD, No Lead				
	Oscillator 1.8 - 3.3V Standby (Power Down) 4-SMD, No	U3	MAX17612A	MAX17612A	
008.0000T MAX17612A	Oscillator 1.8 - 3.3V Standby (Power Down) 4-SMD, No Lead 4.5V to 60V, 250mA Current-Limiter with OV, UV, and Reverse Protection	U3			
008.0000T	Oscillator 1.8 - 3.3V Standby (Power Down) 4-SMD, No Lead 4.5V to 60V, 250mA Current-Limiter with OV, UV, and Reverse		MAX17612A SN65HVD233DR FP-DDC0006A-MFG	MAX17612A SN65HVD233 CMP-04918-000056-1	