



















JST PH 2x RIGHT	Description	Designator	Footprint JST PH 2x RIGHT	LibRef JST PH 2x RIGHT	Quantity
JST PH 2x RIGHT COMB		*1, *2	JST PH 2x RIGHT COMB	JST PH 2x RIGHT COMB	
JST PH 5x RIGHT COMB		*3, *4	JST PH 5x RIGHT COMB	JST PH 5x RIGHT COMB	
JST PH 8x Right comb		*5, *6	JST PH 8x RIGHT SMD	JST PH 8x Right comb	
100nF	Capacitor, Ceramic, SMD, 100nF, 50V, 5%,	C1, C3, C5, C6, C7, C8,	Cap_Ceramic_0603	100nF 50V 5% X7R	
TOUTE	X7R, 0603	C9, C10, C11	cap_ceramic_0803	0603	
100nF	Capacitor, Ceramic, SMD, 100nF, 50V, 5%,	C2, C4	Cap_Ceramic_0603	100nF 50V 5% X7R 0603	
4u7	X7R, 0603 Capacitor, Ceramic, SMD, 4u7, 50V, 5%,	C12	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	
	X7R, 0603 Capacitor, Ceramic,			100nF 100V 5% X7R	
100nF 100V	SMD, 100nF, 100V, 5%, X7R, 0603	C13, C14, C15, C25	Cap_Ceramic_0603	0603	
4u7 50V 5% X7R 0603	Capacitor, Ceramic, SMD, 4u7, 50V, 5%, X7R, 0603	C16, C17	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	
4u7 50V 5%	Capacitor, Ceramic, SMD, 4u7, 50V, 5%, X7R, 0603	C18	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	
470nF 50V 5%	Capacitor, Ceramic, SMD, 470nF, 50V, 5%, X7R, 0603	C19	Cap_Ceramic_0603	470nF 50V 5% X7R 0603	
100nF 50V	Capacitor, Ceramic, SMD, 100nF, 50V, 5%, X7R, 0603	C20	Cap_Ceramic_0603	100nF 50V 5% X7R 0603	
22uF 35V	22μF ±20% 35V Ceramic Capacitor X5R 1206 (3216	C21, C22	Cap_Ceramic_1206	22uF 35V 20% X5R 1206	
47uF 16V 1210	Metric) Capacitor, Ceramic, SMD, 47uF, 16V, 5%,	C23, C24, C28, C29	Cap_Ceramic_1210	47uF 16V 10% X7R	
22uF 35V 1206	X7R, 1210 Capacitor, Ceramic, SMD, 22uF, 35V, 10%,	C26. C27	Cap_Ceramic_1206	1210 22uF 35V 10% X7R	
22UF 35V 12U6 NUP2105L	X7R, 1206 NUP2105L	D1. D2	NUP2105L	1206 NUP2105L	
1N4448WQ-7-F	Diode, SMD, 75V, 5%,	D3	SMA	1N4448WQ-7-F	
B260A-13-F	250mA, SOD123 Diode, Schottky Barrier Rectifier, 60	D4, D5	SMA	B260A-13-F	
PRTR5V0U4D	V, 2 A, B260A-13-F Clamp Ipp Tvs Diode Surface Mount 6-	D6	SC-47	PRTR5V0U4D	
LED Blue 0603	TSOP	DS1, DS2, DS5, DS6	LED BLUE 0603	LED BLUE 0603	
LED Orange LED Red 0603	LED Red 0603	DS3, DS4 DS7, DS8	LED ORANGE 0603 LED RED 0603	LED ORANGE 0603 LED Red 0603	
LED Red USUS LED Green 0603	LED Red 0803 LED Green 0603	DS9, DS10, DS11,	LED RED 0003	LED Red 0603	
		DS12	SOIC127P600X175-		
SI8640BB-B-IS1R	Integrated Circuit	IC1, IC2	16N SOIC127P600X175-	SI8640BB-B-IS1R	
AM26LS32ACDR	Integrated Circuit	IC3, IC4	16N	AM26LS32ACDR	
Jumper 2Way Pins	Jumper 2Way Side Pins	J1, J2, J3, J5, J6, J7	Jumper_2Way_Pin	Jumper 2Way Side Pins	
IDC 10P 2x5 1.27mm	IDC 10P 2x5 1.27mm	14	IDC 1.27MM 10P	IDC 10P 2x5 1.27mm	
MX120G	MX120G with standard connector layout	18, 19	MX120G	MX120G	
JST PH 4x RIGHT COMB	,	J10	JST PH 4x RIGHT COMB	JST PH 4x RIGHT COMB	
74404064221	FIXED IND 220UH	L1, L2	Inductor_6x6mm	74404064221	
330R	660MA 850 MOHM Resistor, SMD, 330R,	R1, R2, R5, R6, R7, R8	Res_ThinFilm_0603	330R 5% 0603	
	0.1W, 5%, 0603 Resistor, SMD, 120R,				
120R 1% 1210	0.25W, 1%, 1210 Resistor, SMD, 4k7,	R3, R9	Res_ThinFilm_1210	120R 1% 1210	
4k7	0.1W, 5%, 0603	R4	Res_ThinFilm_0603	4k7 5% 0603	
4k7 5% 0603	Resistor, SMD, 4k7, 0.1W, 5%, 0603	R10, R11, R12, R15	Res_ThinFilm_0603	4k7 5% 0603	
2M2 1%	Resistor, SMD, 2M2, 0.125W, 1%, 0603	R13, R14	Res_ThinFilm_0603	2M2 1% 0603	
150k 5% 0603	Resistor, SMD, 150k,	R16	Res_ThinFilm_0603	150k 5%, 0603	
390k 5%	0.1W, 5%, 0603 Resistor, SMD, 390k,	R17	Res_ThinFilm_0603	390k 5% 0603	
	0.1W, 5%, 0603 Resistor, SMD, 240k,				
240k 5%	0.1W, 5%, 0603 Resistor, SMD, 1k,	R18	Res_ThinFilm_0603	240k 5% 0603	
1k 5% 0603	0.1W, 5%, 0603	R19	Res_ThinFilm_0603	1k 5% 0603	
64k9 1%	Resistor, SMD, 64k9, 0.1W, 5%, 0603	R20	Res_ThinFilm_0603	64k9 1% 0603	
1k	Resistor, SMD, 1k,	R21, R24	Res_ThinFilm_0603	1k 5% 0603	
19k6 1%	0.1W, 5%, 0603 Resistor, SMD, 19k6,	R22	Res_ThinFilm_0603	19k6 1% 0603	
111k 1%	0.1W, 5%, 0603 Resistor, SMD, 111k,	R23	Res ThinFilm 0603	111k 1% 0603	
	0.1W, 5%, 0603 Resistor, SMD, 20k,				
20k 1% B3U-1000P	0.1W, 1%, 0603 Omron B3U-1000P	R25 SW1	Res_ThinFilm_0603	20k 1% 0603 RTN R3U-1000P	
	Ultra Miniture Switch	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8.			
TestPoint_SMD		TP9, TP10, TP14, TP15, TP16	TestPointSMD	TestPoint_SMD	
TestPoint SI8621BC-B-IS	Si8621BC-B-IS	TP11, TP12, TP13 U1	TestPoint Si8621BC-B-IS	TestPoint Si8621BC-B-IS	
SN65HVD233	SN65HVD233 ARM® Cortex®-M3	U2, U5	SN65HVD233DR	SN65HVD233	
STM32F105RC	STM32F1 Microcontroller IC 32- Bit 72MHz 256KB (256K x 8) FLASH 64- LQFP (10x10)	LI3	STM32F105RC	STM32F105RC	
DSC1001DI1-	on 8MHz XO (Standard) CMOS Oscillator 1.8 - 3.3V Standby (Power Down) 4-SMD, No	U4	DSC1001DI1- 008.0000TCT-ND	DSC1001DI1- 008.0000T	
008.0000T	Lead	l			
008.0000T MAX17612A		U6	10-Pin TDFN EP	MAX17612A	