

Bill of Materials		STEVAL-IHT005V1		
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Quantity	Designator	Value	Description	Vendor	ORDER CODE
1	C3	N.A.	Capacitor		
1	P1	N/A	Header, 4-Pin		
2	C17, C18	N/A	Capacitor		
2	R6, R7	N/A	Resistor		
2	R9, R30	N/A	Resistor		
1	C11	X2 47nF/305V	Capacitor	EPCOS	B32922C3473K000
6	C2, C12, C14, C19, C21, C23	X2 10nF/305V	Capacitor	EPCOS	B32921C3103K000
1	C1	100nF	Capacitor	GME	906-096
1	C4	1nF	Capacitor	GME	906-094
1	C8	1uF	Capacitor	GME	972-094
1	C9	10nF	Capacitor	GME	972-014
1	CE1	10uF/50V	Electrolytic Capacitor	GME	123-058
1	CE4	220uF/16V	Electrolytic Capacitor	GME	123-134
1	CE5	10uF/16V	Electrolytic Capacitor	GME	123-048
1	CE6	N/A	Electrolytic Capacitor	GME	
1	CN2	MLW20G		GME	800-036
1	D6	RED	Typical LED	GME	960-024
1	K1	Relay-RAS 0515	Single-Pole Single-Throw Relay	GME	634-246
1	L1	1mH	Inductor	GME	611-011
1	L2	1mH	Inductor	GME	611-171
1	L3	1uH		GME	965-084
1	Q1	BC557A	PNP Bipolar Transistor	GME	210-037
1	Q2	BC547A	NPN General Purpose Amplifier	GME	210-025
1	R12	N/A	Varistor	GME	
1	R14	595-275	Varistor	GME	115-034
1	R15	1.2k	Resistor	GME	110-075
1	R18	2k	Resistor	GME	110-080
1	R28	56	Resistor	GME	110-043
1	R31	4k7	Resistor	GME	110-089
1	R32	2k	Resistor	GME	901-609

1	R5	22R - 5%	Resistor	GME	114-044
1	R69	100	Resistor	GME	110-049
1	S1	button P-DT6BL		GME	630-051
1	S4	button P-DT6WS		GME	630-049
1	S5	button P-DT6RT		GME	630-042
1	XT1	N/A	Crystal Oscillator(HC49/U 8MHz)	GME	131-059
2	C30, C31	1nF	Capacitor	GME	906-094
2	CE2, CE3	4u7 F/450V	Electrolytic Capacitor	GME	123-039
2	R1, R2	220k - 1%	Resistor	GME	110-129
2	R3, R4	56k	Resistor	GME	901-586
2	R65, R66	50K	Potentiometer+shaft	GME	112-230,624-088
2	S2, S3	button P-DT6SW		GME	630-048
3	C5, C6, C7	100nF	Capacitor	GME	972-089
3	D1, D2, D5		Default Diode SMA	GME	917-016
3	R23, R34, R70	1k	Resistor	GME	901-178
4	J1, J2, J3, J4	ARK300V-3P		GME	821-109
4	R8, R10, R16, R17	15	Resistor	GME	901-573
5	R13, R19, R43, R51, R60	75	Resistor	GME	110-046
5	R61, R62, R63, R64, R68	100	Resistor	GME	901-212
6	C10, C13, C16, C20, C22, C24	10nF	Capacitor	GME	906-089
6	C15, C25, C26, C27, C28, C29	100nF	Capacitor	GME	906-096
6	D7, D8, D9, D10, D11, D12	GREEN	Typical LED	GME	960-023
6	R11, R26, R33, R41, R50, R59	0	STIP line 2x + jumper	GME	832-021,832-013
6	R21, R27, R36, R42, R45, R46	10k	Resistor	GME	901-176
6	R35, R37, R40, R44, R47, R52	510	Resistor	GME	901-409
7	C32, C33, C34, C35, C36, C37, C38	10nF	Capacitor	GME	906-089
7	R20, R22, R53, R54, R55, R56, R67	4k7	Resistor	GME	901-188
9	R24, R25, R29, R38, R39, R48, R49, R57, R58	56	Resistor	GME	901-389
18	-3V3, -6V, A2_T1, A2_T3, G_ACS1, G_ACS2, G_ACS3, G_T1, G_T2, G_T3, L, N_VDD, OUT_ACS1, OUT_ACS2, OUT_ACS3, OUT_T2, VDD, ZVC	testpoint		RS	262-2179
1	T1	12 A triac		ST	T1235H-6T
1	T2	12 A ACST		ST	ACST1235-7T
1	T3	1A triac	Silicon Bidirectional Triode Thyristor	ST	Z0109MA

1	TR1	P6KE300CA	transil	ST	P6KE300CA
1	U1		Monolithic AC-DC converter	ST	VIPER16LN
1	U2		Voltage regulator	ST	LM337
1	U3		32 bit MCU	ST	STM32F100CBT6B
2	D3, D4		Fast Diode	ST	STTH1R06
3	ACS1, ACS2, ACS3			ST	ACS108-6SA
2		Heatsink	heatsink connected to the T1, T2	SEMIC	TP104-30
1		wire loop	wire diameter:0.75mm,length 90 mm, 1xKONPC-SPK-2, 2xKONPC-SPK-PI	GME	840-002,840-004
4			distance columns, 10 mm, KDI6M3X10	GME	623-071
4			M3 screw, 6 mm long	Any	