





Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.04mm		Signal	GTL
Prepreg		0.10mm	2313	Dielectric	
Copper	Mid Layer 1	0.02mm		Signal	G1
Core		0.57mm	FR-4	Dielectric	
Copper	Mid Layer 2	0.02mm		Signal	G2
Prepreg		0.13mm	2116	Dielectric	
Copper	Mid Layer 3	0.02mm		Signal	G3
Core		0.57mm	FR-4	Dielectric	
Copper	Mid Layer 4	0.02mm		Signal	G4
Prepreg		0.10mm	2313	Dielectric	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 1.62mm					

Bill Of Materials

Line #	Designator	Comment	Quantity
	R16, R37, R38	0R - 0402 - %1 - 1/16W	3
	R60	1M05 - 0402 - %1 - 1/16W	1
	R5, R6, R7, R29, R30, R31	4K7 - 0402 - %1 - 1/16W	6
	U1	8-bit MicroController	1
	R1, R18, R19, R20, R21, R35, R41, R42, R50, R51, R53, R54, R55, R56, R59	10K - 0402 - %1 - 1/16W	15
	R39, R40	33R - 0402 - %1 - 1/16W	2
	R8, R9, R10, R13, R14, R15, R17, R22, R23, R24, R25, R32, R33, R34, R43, R44, R45, R49, R57, R58, R61, R63	47K - 0402 - %1 - 1/16W	22
	R12	249K - 0402 - %1 - 1/16W	1
	R2, R3, R4, R11, R26, R27, R28, R36, R62	330R - 0402 - %1 - 1/16W	9
	D4, D5, D6, D7, D8, D9	0402ESDA-MLP1	6
	J3	105450-0101	1
	D1, D2	150066M153000	2
	J2	5025700893	1
	X1	ABMM2-7.3728MHZ-E2-T	1
	U6	ATMEGA2560V-8AU	1
	Q1, Q2, Q3, Q4, Q5, Q6	BC847AQAZ	6
	C80, C81	Capacitor - 1nF [0402] (Ceramic)	2
	C37	Capacitor - 10uF [0603] (Tantalum)	1
	C53, C54	Capacitor - 13pF [0402] (Ceramic)	2
	C5, C6, C7, C10, C11, C14, C16, C18, C21, C22, C23, C26, C27, C28, C31, C32, C33, C34, C35, C36, C41, C45, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C82, C83, C84, C85, C86, C87, C89	Capacitor - 33pF [0402] (Ceramic)	54
	C1, C2, C3, C4, C8, C9, C12, C13, C15, C17, C19, C29, C30, C38, C39, C40, C43, C44, C46, C47, C48, C49, C50, C51, C52, C88	Capacitor - 100nF [0402] (Ceramic)	26
	C20, C24, C25	Capacitor - 100nF [0402] (Ceramic)	3
	U11	DS28CM00R-A00+T	1
	U8	FT234XD-R	1
	U12	HDC2010YPAR	1
	U7	PAM8904EGPR	1
	PZ1	PKMCS0909E4000-R1	1
	U3, U13	Power Switch	2
	SW1	PTS526SK08SMTR2LFS	1
	U10	RV-3028-C7 32.768KHZ 1PPM TA QC	1
	D3	SMD LED (Green)	1
	U5	SN3257QPWRQ1	1
	D10	SS3P3-M3/84A	1
	U9	TCA9548APWR	1
	U2	TPL5111DDCR	1
	U4	TXS0108EPWR	1